How To Configure Production Integration

Applicable Releases:
SAP EWM 9.1 and higher
SAP ERP 6.0 EhP 4 and higher

Topic Area:
Extended Warehouse Management

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<thead>
<tr>
<th>Document Version</th>
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<tr>
<td>1.1</td>
<td>Updated version due to minor corrections</td>
</tr>
<tr>
<td>1.0</td>
<td>First official release of this guide</td>
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## Typographic Conventions

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</tr>
<tr>
<td><strong>Example Text</strong></td>
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<tr>
<td><strong>Example Text</strong></td>
<td>File and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.</td>
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<tr>
<td><strong>Example Text</strong></td>
<td>User entry texts. These are words or characters that you enter in the system exactly as they appear in the documentation.</td>
</tr>
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<td><strong>&lt;Example text&gt;</strong></td>
<td>Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.</td>
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## Icons

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<td>Important</td>
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<td>🔴</td>
<td>Note</td>
</tr>
<tr>
<td>🔴</td>
<td>Recommendation or Tip</td>
</tr>
<tr>
<td>🔴</td>
<td>Example</td>
</tr>
</tbody>
</table>
Table of Contents

1. Business Scenario ............................................................................................................. 1
2. Background Information .................................................................................................. 1
3. Prerequisites ...................................................................................................................... 1
4. Step-by-Step Procedure .................................................................................................... 2
   4.1 Configuration in SAP ERP .............................................................................................. 2
       4.1.1 Activate the BC-Set ZZ_PRE_PRODINT_05_ERP .................................................... 2
       4.1.2 Define New Storage Locations (BC Set) ................................................................. 2
       4.1.3 Assign Warehouse Number to Plant/Storage Location (BC Set) ............................... 3
       4.1.4 Determine Movement Types (Standard Customizing) ............................................ 3
       4.1.5 Define Interface to Inventory Management and Delivery-Relevant Data (Mandatory)... 3
       4.1.6 Define Delivery Type Determination (BC Set) ......................................................... 4
       4.1.7 Configure Subsequent Delivery Split in ERP (BC-Set) ........................................... 5
       4.1.8 Define Production Scheduling Profiles (BC Set) .................................................... 5
       4.1.9 Define Stock Transfer Strategies (BC Set) ............................................................ 6
       4.1.10 Define Repetitive Manufacturing Profiles (BC Set) .............................................. 6
   4.2 Configuration in SAP EWM .......................................................................................... 6
       4.2.1 Activate Delivery BC-Sets in SAP EWM (Mandatory) ........................................... 6
       4.2.2 Activate the BC-Set /SCWM/PRE_PRODINT_05 (Mandatory) ............................... 7
       4.2.3 Map Storage Locations from ERP System to EWM (Mandatory) ............................ 7
       4.2.4 Determine Stock Type (BC Set) ............................................................................. 8
       4.2.5 Define Storage Types (BC-Set) ............................................................................ 8
       4.2.6 Define Storage Section (BC Set) ........................................................................... 8
       4.2.7 Define Staging Areas (BC Set) ............................................................................. 9
       4.2.8 Generate Activity Area from Storage Type (BC-Set) ............................................. 9
       4.2.9 Configure Availability Group for Putaway (BC-Set) .............................................. 9
       4.2.10 Specify Storage Type Search Sequence for Putaway (BC Set) .............................. 10
       4.2.11 Define Document Types for Inbound Delivery Process (BC-Set) ........................... 10
       4.2.12 Maintain Settings for Aut. Goods Issue for Production Supply (BC-Set) .............. 11
       4.2.13 Determine Storage Type Search Sequence (BC-Set) ......................................... 11
       4.2.14 Activate Replenishment Strategies in Storage Types (BC Set) ............................ 11
       4.2.15 Define Warehouse Process Type (BC Set) .......................................................... 12
       4.2.16 Determine Warehouse Process Type (BC Set) .................................................... 12
       4.2.17 Define Queues (BC Set) .................................................................................... 13
       4.2.18 Define Queue Determination Criteria (BC-Set) .................................................. 13
       4.2.19 Define Warehouse Specific Verification Determination (BC-Set) ........................ 13
   4.3 Settings and Master Data in SAP ERP .......................................................................... 14
       4.3.1 Create a PSA in SAP ERP (Mandatory) ............................................................... 14
       4.3.2 Create Materials in SAP ERP (Mandatory) ........................................................... 14
       4.3.3 Maintain your Materials for your Storage Locations ............................................. 15
       4.3.4 Replicate Materials from ERP to EWM (Mandatory) ........................................ 16
       4.3.5 Create Control Cycles (Mandatory) .................................................................... 17
       4.3.6 Create Control Cycles for KANBAN (Mandatory) ............................................. 17
       4.3.7 Create Work Center (Mandatory) ....................................................................... 18
       4.3.8 Create Routing (Mandatory) ............................................................................... 19
       4.3.9 Create Bill of Materials (Mandatory) ................................................................... 19
       4.3.10 Create Process Product Cost Collector (Mandatory) ......................................... 21
4.3.11 Create Packing Instruction (Mandatory) ................................................................. 21
4.3.12 Create Condition Record for Packing Instruction Determination (Mandatory) 22

4.4 Settings and Master Data in EWM ............................................................................. 22
  4.4.1 Maintain Queue Sequence for Resource Group (Mandatory) .................... 22
  4.4.2 Replicate the PSA in EWM (Mandatory) ....................................................... 22
  4.4.3 Define PSA in EWM (Mandatory) ................................................................. 23
  4.4.4 Create Bins (Mandatory) ............................................................................. 23
  4.4.5 Assign Product to a Bin in the PSA (Mandatory) ........................................ 23
  4.4.6 Staging Area and Door Determination Inbound (Mandatory) ................. 24
  4.4.7 Create Packaging Specification and Determination Record for Automatic
       HU Creation (Mandatory) .............................................................................. 24
  4.4.8 Create Determination Records for Printing HU Content Labels (Mandatory) 25
  4.4.9 Create Determination Records for Automatic GR Posting (Mandatory) ... 26

5. Appendix .............................................................................................................................. 27
  5.1 Process Testcase for Production Integration Using two EWM Managed Storage
       Locations for Warehouse and Production ......................................................... 27
  5.2 Process Testcase for Production Integration Using one EWM Managed Storage
       Location for Warehouse and Production ......................................................... 34
  5.3 Process Testcase for Production Integration Using one EWM Managed Storage
       Location for Warehouse and one IM Managed Storage Location for Production .... 40
  5.4 Process Testcase for Repetitive Manufacturing Integration Using one EWM
       Managed Storage Location for Warehouse and one IM Managed Storage Location
       for Production ........................................................................................................ 46
1. **Business Scenario**

The integration of EWM with the ERP component Production Planning and Control (PP) enables you to manage the staging and consumption of components from the warehouse to production and the receiving and storage of finished products from production into the warehouse.

2. **Background Information**

This document describes the configuration necessary to run the production integration processes. The processes are integrated into the preconfigured warehouse described in scenario “Warehouse Management with Preconfigured Processes”.

3. **Prerequisites**

You have implemented the configuration document ‘Quick Implementation of Preconfigured Warehouse’.

You have activated the ERP business function `LOG_PP_EWM_MAN`. 
4. **Step-by-Step Procedure**

This guide describes additional customizing and easy access settings for the preconfigured warehouse in order to test the production integration processes.

**Note**

BC Sets exist for most of the customizing entries described in this configuration guide. The chapters covered by BC Sets are marked with the suffix '(BC Set)'. Skip these chapters if you have activated the corresponding BC Sets. Only the easy access settings have to be carried out manually. Those chapters are marked with the suffix '(Mandatory)'.

4.1  **Configuration in SAP ERP**

4.1.1  **Activate the BC-Set ZZ_PRE_PRODINT_05_ERP**

You use this procedure to activate a BC Set in SAP ERP.

⚠️ **CAUTION**

The BC set is attached to note 1888397. Please follow the instructions in the note on how to download the BC-Set from the note into your system.

**Procedure**

1. In the easy access menu for SAP EWM choose *Tools → Customizing → Business Configuration Sets → Activation of BC Sets* or use transaction SCPR20
2. Enter BC Set ZZ_PRE_PRODINT_05_ERP
3. Press activate
4. Enter the following data as variables to be used by the BC Set during activation.

⚠️ **Important**

It is important that you use the same organizational units as you have used for setting up your preconfigured warehouse!

a. Enter your plant e.g. PL02
b. Enter your ERP warehouse number e.g. W02
5. Press copy values

4.1.2  **Define New Storage Locations (BC Set)**

You use this procedure to define two new storage locations for your EWM production integration

**Procedure**

1. In customizing for SAP ERP choose *Enterprise Structure → Definition → Materials Management → Maintain Storage Location*
2. Create the following entries

<table>
<thead>
<tr>
<th>Plant</th>
<th>Sloc</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL02</td>
<td>PSIM</td>
<td>Prod. Supply ERP</td>
</tr>
<tr>
<td>PL02</td>
<td>PSWM</td>
<td>Prod. Supply EWM</td>
</tr>
</tbody>
</table>
3. Save your entries.
4.1.3 Assign Warehouse Number to Plant/Storage Location (BC Set)

You use this procedure to assign your ERP warehouse number which is mapped to the EWM
warehouse number to your plant and to the new storage location PSWM.

Procedure

1. In customizing for SAP ERP choose Enterprise Structure → Assignment → Logistics Execution
   → Assign Warehouse Number to Plant/Storage Location
2. Create the following entry

<table>
<thead>
<tr>
<th>Plant</th>
<th>Sloc</th>
<th>WhN</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL02</td>
<td>PSWM</td>
<td>W02</td>
</tr>
</tbody>
</table>

3. Save your entry.

4.1.4 Determine Movement Types (Standard Customizing)

You use this procedure to determine the movement types for the reservations and their subsequent
goods movements and for the goods receipt postings.

Procedure

1. In customizing for SAP ERP choose Production → Shop Floor Control → Integration→ Determine
   Movement Types
2. Check the following entries

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Package</td>
<td>CO</td>
</tr>
<tr>
<td>Movement Type Goods Receipt</td>
<td>101</td>
</tr>
<tr>
<td>Mvt Type Reversal of Goods Receipt</td>
<td>102</td>
</tr>
<tr>
<td>Movement Type Goods Issue</td>
<td>261</td>
</tr>
<tr>
<td>Mvt Type Reversal of Goods Issue</td>
<td>262</td>
</tr>
<tr>
<td>Movement Type GR By-Product</td>
<td>531</td>
</tr>
<tr>
<td>Movement Type GR Reversal By-Product</td>
<td>532</td>
</tr>
<tr>
<td>Movement Type Part Provided</td>
<td>543</td>
</tr>
<tr>
<td>Movement Type Part Provided Reversal</td>
<td>544</td>
</tr>
<tr>
<td>Movement Type Part Provided By-Prod.</td>
<td>545</td>
</tr>
<tr>
<td>Reversal Part Provided By-Product</td>
<td>546</td>
</tr>
</tbody>
</table>

4.1.5 Define Interface to Inventory Management and Delivery-Relevant Data (Mandatory)

4.1.5.1 Define Delivery-Relevant Data for Warehouse Number

You use this procedure to define the interface to inventory management and delivery relevant data for
ERP warehouse.
Procedure

1. In customizing for SAP ERP choose Logistics Execution → Decentralized WMS Integration → Central Processing → Application → Define Interface to Inventory Management and Delivery-Relevant Data

2. Choose the activity Delivery Relevant Data for Warehouse Number

3. Create the following entry for your ERP warehouse number

<table>
<thead>
<tr>
<th>Ship-to party</th>
<th>Vendor</th>
<th>Shipping Point</th>
<th>Sales Organization</th>
<th>Distribution Channel</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPPL02C</td>
<td>BPPL02V</td>
<td>0001</td>
<td>0001</td>
<td>01</td>
<td>01</td>
</tr>
</tbody>
</table>

4. Save your entries.

![Important]

This setting is needed for the creation of goods receipt from production to get the vendor for the inbound delivery

4.1.5.2 Define Delivery-Relevant Parameters for Reference Movement Type

You use this procedure to check the delivery type for your inbound deliveries

Procedure

1. In customizing for SAP ERP choose Logistics Execution → Decentralized WMS Integration → Central Processing → Application → Define Interface to Inventory Management and Delivery-Relevant Data

2. Choose the activity Delivery Relevant Parameters for Reference Movement Type

3. Check that delivery type DIG is used for your inbound deliveries.

4.1.6 Define Delivery Type Determination (BC Set)

You use this procedure to make the settings for EWM Integration into Production Planning and Control.

Procedure

1. In customizing for SAP ERP choose Logistics Execution → Extended Warehouse Management Integration → Production Planning and Control → Define Delivery Type Determination

2. Create the following entries

<table>
<thead>
<tr>
<th>Plant</th>
<th>SLoc</th>
<th>Proc</th>
<th>DlvTy</th>
<th>MvT</th>
<th>MvT SO</th>
<th>MvT Pr</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>C1 GI of Staged Parts</td>
<td>DOG</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>K1 GI from Kanban for Cost Center</td>
<td>DOG</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>K4 Kanban 1-Step Stock Transfer</td>
<td>DOG</td>
<td>411</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
3. Save your entries.

### 4.1.7 Configure Subsequent Delivery Split in ERP (BC-Set)

You use this procedure to configure the subsequent delivery split for your delivery types in SAP ERP.

**Procedure**

1. In customizing for SAP ERP choose *Logistics Execution* → *Shipping* → *Deliveries* → *Subsequent Delivery Split*
2. Select split profile 0003.
3. In the dialog structure choose *per delivery type*
4. Copy the entry 0003 LF to 0003 DOG.
5. Save the data.

### 4.1.8 Define Production Scheduling Profiles (BC Set)

You use this procedure to adapt the scheduling profile in order to post GR with your confirmation of your production orders.

**Procedure**

1. In customizing for SAP ERP choose *Production* → *Shop Floor Control* → *Master Data* → *Define Production Scheduling Profile*
2. Change the following entry accordingly
### 4.1.9 Define Stock Transfer Strategies (BC Set)

You use this procedure to define several stock transfer strategies to be used in KANBAN control cycles with EWM.

**Procedure**

1. In customizing for SAP ERP choose *Production* → *KANBAN* → *Replenishment Strategies* → *Define Stock Transfer Strategies*
2. Create the following entries by copying stock transfer strategy 0006

<table>
<thead>
<tr>
<th>Plant</th>
<th>Stock Transfer</th>
<th>Description</th>
<th>Control type</th>
<th>Cons. Cost ctr</th>
<th>MvtType cons.CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL02</td>
<td>0007</td>
<td>Kanban from eWM with outbound delivery</td>
<td>7 Delivery from an EWM controlled storage location</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PL02</td>
<td>0008</td>
<td>Kanban from eWM with outbound delivery; CC</td>
<td>7 Delivery from an EWM controlled storage location</td>
<td>1 Post withdrawal to cost center</td>
<td>201</td>
</tr>
</tbody>
</table>

3. Save your entries

### 4.1.10 Define Repetitive Manufacturing Profiles (BC Set)

You use this procedure to define a repetitive manufacturing profile for your finished goods to be used with repetitive manufacturing.

**Procedure**

1. In customizing for SAP ERP choose *Production* → *Repetitive Manufacturing* → *Control* → *Define Repetitive Manufacturing Profiles*
2. Use the standard repetitive manufacturing profile 0001. You do not need to make any changes to it.

### 4.2 Configuration in SAP EWM

#### 4.2.1 Activate Delivery BC-Sets in SAP EWM (Mandatory)

You use this procedure to activate a delivery related BC Sets in SAP EWM.

**Procedure**

1. In the easy access menu for SAP EWM choose *Tools* → *Customizing* → *Business Configuration Sets* → *Activation of BC Sets* or use transaction SCPR20
2. Activate the following BC Sets:
### Name BC Set | Description | Hierarchical BC Set
--- | --- | ---
/SCWM/DLV_TRANSFER_PROF | Delivery Processing in EWM - Posting Change | -
/SCWM/DLV_STOCK_TRANS_PROF | Delivery Processing in EWM - Stock Transfer | -
/SCWM/DLV_PROD_SUPPLY_FOR_TEST | Delivery - Production Supply all Scenarios (for Test) | X
/SCWM/DLV_INBOUND_PROD | Delivery Processing in EWM - Inbound Delivery GR Production | X
/SCWM/DLV_EXPGR_PROD | Delivery Processing in EWM - Expected GR/Production | X
/SCWM/DLV_INBOUND_PROD_RM | Delivery Processing - GR for Repetitive Manufacturing | X
/SCWM/DLV_OUTBOUND_PROD_RM | Delivery - Correction Delivery for Repetitive Manufacturing | X
/SCWM/DLV_PRODUCTION_REP_MAN | Delivery - Repetitive Manufacturing | -
/SCWM/DLV_BASIC_NUMBERRANGE | Delivery in EWM - Number Ranges | -

3. Press *activate* and press *copy* values for each BC Set.

### 4.2.2 Activate the BC-Set /SCWM/PRE_PRODINT_05 (Mandatory)

You use this procedure to activate a BC Set in SAP EWM.

**Procedure**

1. In the easy access menu for SAP EWM choose *Tools → Customizing → Business Configuration Sets → Activation of BC Sets* or use transaction SCPR20
2. Enter BC Set /SCWM/PRE_PRODINT_05
3. Press *activate*
4. Enter the following data as variables to be used by the BC Set during activation

   ![](important.png)
   It is important that you use the same organizational units as you have used for setting up your preconfigured warehouse!
   a. Enter your warehouse number e.g. W002
5. Press copy values

### 4.2.3 Map Storage Locations from ERP System to EWM (Mandatory)

You use this procedure to map the storage locations from ERP system to EWM

**Procedure**

1. In customizing for SAP EWM choose *Interfaces → ERP Integration → Goods Movements → Map Storage Locations from ERP System to EWM*
2. Create the following entry
### How To Configure Production Integration

<table>
<thead>
<tr>
<th>Plant</th>
<th>SLoc</th>
<th>Logical System</th>
<th>Warehouse Number</th>
<th>AGr</th>
<th>Ent. To Dispose</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL02</td>
<td>PSWM</td>
<td>ERPCLNT001</td>
<td>W002</td>
<td>003</td>
<td>BPPL02V</td>
</tr>
</tbody>
</table>

3. Save your entry.

#### 4.2.4 Determine Stock Type (BC Set)

You use this procedure to determine stock types for production

**Procedure**

1. In customizing for SAP EWM choose SCM Basis → Logistics Inventory Management Engine (LIME) → Basic Settings → Application-Specific Settings → Determine Stock Type
2. Create the following entries

<table>
<thead>
<tr>
<th>Stock type</th>
<th>Descr. Of Stock Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2</td>
<td>Unrestricted-use Production</td>
</tr>
<tr>
<td>P4</td>
<td>Stock in QI in Production</td>
</tr>
<tr>
<td>P6</td>
<td>Blocked in Production</td>
</tr>
</tbody>
</table>

3. Save your entries.

#### 4.2.5 Define Storage Types (BC-Set)

You use this procedure to create a new storage type T100, T105 and T915 for production integration

**Procedure**

1. In customizing for SAP EWM choose Extended Warehouse Management → Master Data → Define Storage Type
2. Copy from warehouse 0001 to your warehouse e.g W002 storage type 1000 to T100 and 1005 to T105.
3. Copy from warehouse W002 to your warehouse e.g W002 storage type T911 to T915.
4. Change storage type role from D to I for new storage type T915
5. Save the new storage types

#### 4.2.6 Define Storage Section (BC Set)

You use this procedure to define storage sections for the new storage types T100, T105 and T915 in SAP EWM.

**Procedure**

1. In customizing for SAP EWM choose Extended Warehouse Management → Master Data → Define Storage Sections
2. Copy storage section T020 S001 to T100 S001
3. Copy storage section T020 S001 to T105 S001
4. Copy storage section T020 S001 to T915 S001
5. Save your entries.
### 4.2.7 Define Staging Areas (BC Set)

You use this procedure to define staging areas in SAP EWM.

**Procedure**

1. In customizing for SAP EWM choose *Extended Warehouse Management* → *Master Data* → *Staging Areas* → *Define Staging Areas*
2. Create the following entries:

<table>
<thead>
<tr>
<th>Warehouse No.</th>
<th>Staging Area Group</th>
<th>Staging Area</th>
<th>GR</th>
<th>GI</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>T915</td>
<td>S001</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

3. Save your entries.

### 4.2.8 Generate Activity Area from Storage Type (BC-Set)

You use this procedure to generate activity area from storage type in SAP EWM.

**Procedure**

1. In customizing for SAP EWM choose *Extended Warehouse Management* → *Master Data* → *Activity Area* → *Generate Activity Area from Storage Type*
2. Create the following entries:

<table>
<thead>
<tr>
<th>Warehouse No.</th>
<th>Storage type</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>T100</td>
<td>INVE</td>
</tr>
<tr>
<td>W002</td>
<td>T915</td>
<td>PTWY</td>
</tr>
</tbody>
</table>

3. Save your entries.

### 4.2.9 Configure Availability Group for Putaway (BC-Set)

#### 4.2.9.1 Availability Groups

You use this procedure to define availability group for production

**Procedure**

1. In customizing for SAP EWM choose *Extended Warehouse Management* → *Goods Receipt Process* → *Configure Availability Group for Putaway*
2. Choose *Define Availability Group*
3. Create the following entry

<table>
<thead>
<tr>
<th>Warehouse Number</th>
<th>AGr</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>003</td>
<td>Stock in Production</td>
</tr>
</tbody>
</table>

4. Save your entry

#### 4.2.9.2 EWM Stock Types

You use this procedure to assign stock types to availability group for production

**Procedure**
1. In customizing for SAP EWM choose Extended Warehouse Management → Goods Receipt Process → Configure Stock Type
2. Choose Configure Stock Types
3. Create the following entry

<table>
<thead>
<tr>
<th>Warehouse No.</th>
<th>Stock Type</th>
<th>AGr</th>
<th>NST</th>
<th>R.</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>P2</td>
<td>003</td>
<td>FF</td>
<td>N Normal Stock</td>
</tr>
<tr>
<td>W002</td>
<td>P4</td>
<td>003</td>
<td>QQ</td>
<td>N Normal Stock</td>
</tr>
<tr>
<td>W002</td>
<td>P6</td>
<td>003</td>
<td>BB</td>
<td>N Normal Stock</td>
</tr>
</tbody>
</table>

4. Save your entries

### 4.2.10 Specify Storage Type Search Sequence for Putaway (BC Set)

You use this procedure to specify storage type search sequence for putaway in SAP EWM.

**Procedure**

1. In customizing for SAP EWM choose Extended Warehouse Management → Goods Receipt Process → Strategies → Storage Type Search → Specify Storage Type Search Sequence for Putaway
2. Create the following entry

<table>
<thead>
<tr>
<th>Warehouse No.</th>
<th>Warehouse process Type</th>
<th>Quantity Classifier</th>
<th>Storage Type Search Seq.</th>
<th>Removal Rule</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>P113</td>
<td>-</td>
<td>5010</td>
<td>-</td>
</tr>
</tbody>
</table>

3. Save your entry.

### 4.2.11 Define Document Types for Inbound Delivery Process (BC-Set)

You use this procedure to enter a determination procedure for a packaging specification to get packaging material proposal so that an inbound delivery from production can be packed in Hus automatically.

**Procedure**

2. Enter the following packaging material proposal procedure to your document type and document category as shown in the following table

<table>
<thead>
<tr>
<th>Document Type</th>
<th>Doc. Categ.</th>
<th>PackMatPropProc</th>
</tr>
</thead>
<tbody>
<tr>
<td>INBI</td>
<td>PDI</td>
<td>OIBD</td>
</tr>
</tbody>
</table>

3. Save your entry
4.2.12 Maintain Settings for Aut. Goods Issue for Production Supply (BC-Set)

You use this procedure to maintain settings for automatic goods issue postings during production supply.

Procedure


2. Create the following entry

<table>
<thead>
<tr>
<th>Whse No.</th>
<th>Document Type</th>
<th>GI from PSA</th>
<th>OutbDel Spl All</th>
<th>Item Split All</th>
<th>Time Delay</th>
<th>Delay Split</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>OPS</td>
<td>A Goods Issue Posting by Background Job Allowed</td>
<td>X</td>
<td>X</td>
<td>120</td>
<td>-</td>
</tr>
</tbody>
</table>

3. Save your entry

4.2.13 Determine Storage Type Search Sequence (BC-Set)

You use this procedure to determine storage type search sequence for stock removal in SAP EWM.

Procedure

1. In customizing for SAP EWM choose Extended Warehouse Management → Goods Issue Process → Strategies → Determine Storage Type Search Sequence for Stock Removal

2. Create the following entry

<table>
<thead>
<tr>
<th>Warehouse No</th>
<th>Warehouse Process Type</th>
<th>Quantity Classifier</th>
<th>Storage Type Search Seq.</th>
<th>Removal Rule</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>P201</td>
<td>-</td>
<td>S001</td>
<td>SR01</td>
</tr>
<tr>
<td>W002</td>
<td>P301</td>
<td>-</td>
<td>S001</td>
<td>SR01</td>
</tr>
<tr>
<td>W002</td>
<td>P401</td>
<td>-</td>
<td>S001</td>
<td>SR01</td>
</tr>
</tbody>
</table>

3. Save your entry.

4.2.14 Activate Replenishment Strategies in Storage Types (BC Set)

You use this procedure to activate a replenishment strategy for your storage type

Procedure

1. In customizing for SAP EWM choose Extended Warehouse Management → Internal Warehouse Processes → Replenishment Control → Activate Replenishment Strategies in Storage Types

2. Create the following entry

<table>
<thead>
<tr>
<th>Warehouse No</th>
<th>Storage Type</th>
<th>Repl. Strat.</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>T100</td>
<td>5 Crate Part Replenishment</td>
</tr>
<tr>
<td>W002</td>
<td>T105</td>
<td>5 Crate Part Replenishment</td>
</tr>
</tbody>
</table>
3. Save your entry

### 4.2.15 Define Warehouse Process Type (BC Set)
You use this procedure to define warehouse process types in SAP EWM.

**Procedure**

1. In customizing for SAP EWM choose *Extended Warehouse Management -> Cross-Process Settings -> Warehouse Task -> Define Warehouse Process Type*
2. Create the following entries:

<table>
<thead>
<tr>
<th>Warehouse</th>
<th>Process Type</th>
<th>Process Category</th>
<th>Manual WT Forbidden</th>
<th>Activity</th>
<th>Stock Identification Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>P101</td>
<td>1</td>
<td>X</td>
<td>PTWY</td>
<td>A</td>
</tr>
<tr>
<td>W002</td>
<td>P113</td>
<td>1</td>
<td>X</td>
<td>PTWY</td>
<td>A</td>
</tr>
<tr>
<td>W002</td>
<td>P201</td>
<td>2</td>
<td>X</td>
<td>PICK</td>
<td>-</td>
</tr>
<tr>
<td>W002</td>
<td>P301</td>
<td>3</td>
<td>-</td>
<td>REPL</td>
<td>-</td>
</tr>
<tr>
<td>W002</td>
<td>P401</td>
<td>7</td>
<td>-</td>
<td>STCH</td>
<td>-</td>
</tr>
</tbody>
</table>

3. Save your entry.

### 4.2.16 Determine Warehouse Process Type (BC Set)
You use this procedure to determine warehouse process types in SAP EWM.

**Procedure**

1. In customizing for SAP EWM choose *Extended Warehouse Management -> Cross-Process Settings -> Warehouse Task -> Determine Warehouse Process Type*
2. Create the following entries:

<table>
<thead>
<tr>
<th>Warehouse No</th>
<th>Document Type</th>
<th>Item Type</th>
<th>Delivery Priority</th>
<th>Process Type Determination</th>
<th>Process Indicator</th>
<th>Warehouse Process Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>INBI</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>- (No Special Process)</td>
<td>P113</td>
</tr>
<tr>
<td>W002</td>
<td>IPS</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>- (No Special Process)</td>
<td>P101</td>
</tr>
<tr>
<td>W002</td>
<td>IRM</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>- (No Special Process)</td>
<td>P113</td>
</tr>
<tr>
<td>W002</td>
<td>OPC</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>- (No Special Process)</td>
<td>P201</td>
</tr>
</tbody>
</table>
3. Save your entries

4.2.17 Define Queues (BC Set)
You use this procedure to define queues in SAP EWM.

Procedure
1. In customizing for SAP EWM choose Extended Warehouse Management → Cross-Process Settings → Resource Management → Define Queues
2. Create the following entry:

<table>
<thead>
<tr>
<th>Warehouse No.</th>
<th>Queue</th>
<th>Description</th>
<th>Oper.Environ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>Q-915-010</td>
<td>Ptwy. T915 to T010</td>
<td>3 RF; Resource Management Active</td>
</tr>
</tbody>
</table>

3. Save your entry

4.2.18 Define Queue Determination Criteria (BC-Set)
You use this procedure to define queue determination criteria in SAP EWM.

Procedure
1. In customizing for SAP EWM choose Extended Warehouse Management → Cross-Process Settings → Resource Management → Define Queues → Define Queue Determination Criteria
2. Create the following entry:

<table>
<thead>
<tr>
<th>Warehouse No.</th>
<th>AA Source; Dest AA</th>
<th>Acc.Type</th>
<th>WhseProcType</th>
<th>Activity</th>
<th>Queue</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>;T010</td>
<td>AT03</td>
<td>P113</td>
<td>PTWY</td>
<td>Q-915-010</td>
</tr>
</tbody>
</table>

3. Save your entry.

4.2.19 Define Warehouse Specific Verification Determination (BC-Set)
You use this procedure to define warehouse-specific verification determination in SAP EWM.

Procedure
1. In customizing for SAP EWM choose Extended Warehouse Management → Mobile Data Entry → Verification Control → Define Warehouse-Specific Verification Determination
2. Create the following entry:

<table>
<thead>
<tr>
<th>Warehouse No.</th>
<th>Warehouse Process Type</th>
<th>Process Category</th>
<th>Activity</th>
<th>Activity Area</th>
<th>Verification Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>P113</td>
<td>1 (Putaway)</td>
<td>Ptwy</td>
<td>T010</td>
<td>ZVP1</td>
</tr>
</tbody>
</table>

December 2013 13
3. Save your entry.

4.3 Settings and Master Data in SAP ERP

4.3.1 Create a PSA in SAP ERP (Mandatory)
You use this procedure to create at least 3 PSAs for the 3 different organizational models

Procedure

1. In the easy access menu for SAP ERP choose Logistics → Logistics Execution → Master Data → Warehouse → Production Supply → Production Supply Area → Create/Change (or use transaction PK05)
2. Create the following PSAs

<table>
<thead>
<tr>
<th>Plant</th>
<th>Supply Area</th>
<th>Description</th>
<th>Stor. Location</th>
<th>Responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL02</td>
<td>PSA-001</td>
<td>PSA-001</td>
<td>PSWM</td>
<td>001</td>
</tr>
<tr>
<td>PL02</td>
<td>PSA-002</td>
<td>PSA-002</td>
<td>AFS</td>
<td>001</td>
</tr>
<tr>
<td>PL02</td>
<td>PSA-003</td>
<td>PSA-003</td>
<td>PSIM</td>
<td>001</td>
</tr>
</tbody>
</table>

3. Save your entries

4.3.2 Create Materials in SAP ERP (Mandatory)
You use this procedure to create material master records in SAP ERP which are necessary for testing all different scenarios.

Procedure

1. In the easy access menu for SAP ERP choose Logistics → Materials Management → Material Master → Material → Create (General) → Immediately
2. Create the following materials

<table>
<thead>
<tr>
<th>Field/Value</th>
<th>Finished products for discrete manufacturing</th>
<th>Finished product for repetitive manufacturing</th>
<th>Components</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials</td>
<td>FERT1</td>
<td>SERIFERT3</td>
<td>KOMP1</td>
<td>KOMPKCC1</td>
</tr>
<tr>
<td></td>
<td>FERT2</td>
<td></td>
<td>KOMP1</td>
<td>KOMPKCC2</td>
</tr>
<tr>
<td></td>
<td>FERT3</td>
<td></td>
<td>KOMP1</td>
<td>KOMPKCC3</td>
</tr>
<tr>
<td>Industry Sector</td>
<td>M</td>
<td>M</td>
<td>M</td>
<td>M</td>
</tr>
<tr>
<td>Material Type</td>
<td>FERT</td>
<td>FERT</td>
<td>HAWA</td>
<td>HAWA</td>
</tr>
</tbody>
</table>
### How To Configure Production Integration

#### 3. Save your materials

**4.3.3 Maintain your Materials for your Storage Locations**

You use this procedure to maintain the storage locations for the material master records in SAP ERP which are necessary for testing all different scenarios.
How To Configure Production Integration

Procedure

1. In the easy access menu for SAP ERP choose Logistics → Materials Management → Material Master → Other → Enter Storage Locations (Or use transaction MMSC)
2. Create the following entries

<table>
<thead>
<tr>
<th>Field/Value</th>
<th>FERT1</th>
<th>FERT2</th>
<th>FERT3</th>
<th>SERIFERT3</th>
<th>KOMP1</th>
<th>KOMPR1</th>
<th>KOMPCR1</th>
<th>KOMPK1</th>
<th>KOMP2</th>
<th>KOMPR2</th>
<th>KOMPCR2</th>
<th>KOMPK2</th>
<th>KOMP3</th>
<th>KOMPR3</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLoc</td>
<td>AFS</td>
<td>AFS</td>
<td>AFS</td>
<td>AFS</td>
<td>AFS</td>
<td>AFS</td>
<td>AFS</td>
<td>AFS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLoc</td>
<td>ROD</td>
<td>ROD</td>
<td>ROD</td>
<td>ROD</td>
<td>ROD</td>
<td>ROD</td>
<td>ROD</td>
<td>ROD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLoc</td>
<td></td>
<td></td>
<td></td>
<td>PSWM</td>
<td></td>
<td>PSIM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Save your entries

4.3.4 Replicate Materials from ERP to EWM (Mandatory)

Important
This setting is only needed in case there is no integration model set up already. If the preconfigured warehouse is set up correctly an integration model should already exist and ideally a batch job is scheduled to replicate new materials automatically from SAP ERP to SAP EWM.

4.3.4.1 Generate an Integration Model (Mandatory)

Procedure

1. In the easy access menu of SAP ERP, choose Logistics → Central Functions → Supply Chain Planning → Interface → Core Interface Advanced Planner and Optimizer → Integration Model → Create. Alternatively, call transaction CFM1.
2. In the Model Name field, enter a name for the integration model, for example, IMPROD1.
3. In the Logical System field, enter the name of the target system, for example, EWMCLNT001.
4. In the APO Application field, enter for example EWM.
5. Select the required options as follows:
   a. In the Material Dependent Objects screen area, select the Plants checkbox.
   b. In the General Selection Options for Materials screen area, enter the name of the plant in the Plnt field, for example (valid for the standard warehouse with preconfigured processes): PL02.
6. Save your integration model as a variant for future reuse, for example, VIMPROD1.
7. Choose Execute. 
8. On the next screen, choose Generate IM.

4.3.4.2 Activate the Integration Model (Mandatory)
You use this procedure to activate the generated integration model manually.

Procedure

1. In the easy access menu, choose Logistics → Central Functions → Supply Chain Planning Interface → Core Interface Advanced Planner and Optimizer → Integration Model → Activate.
2. In the Selection Criteria screen area, enter the model name, the logical system, and the APO application that you used to create the integration model.

3. Choose Execute. The Activate or Deactivate Integration Model screen appears.

4. In the screen area on the left, choose the APO application, for example, EWM. Your integration model appears in the screen area on the right.

5. In the screen area on the right, select the relevant line and choose Active/Inactive. The status of your integration model is displayed in the New Status field.

6. In the screen area on the right, select the relevant line and choose Start. If you activate a model for the first time in a client, the system proposes in a dialog box to automatically create a number range interval for the object CIF_LOAD. Accept the proposal. The system confirms the activation of the model in a dialog box.

### 4.3.5 Create Control Cycles (Mandatory)

You use this procedure to create control cycles in SAP ERP

#### Procedure

1. In the easy access menu for SAP ERP choose Logistics → Logistics Execution → Master Data → Warehouse → Production Supply → Control Cycle Production Supply → Create (Or use transaction LPK1)

2. Create the following Control Cycles

<table>
<thead>
<tr>
<th>Material</th>
<th>Plant</th>
<th>PSA</th>
<th>Stor.Loc</th>
<th>Whn</th>
<th>Stag. Ind.</th>
<th>Iss.Plan</th>
<th>Stor. Loc</th>
<th>No Contain</th>
<th>Quantity</th>
<th>UoM</th>
<th>Whn</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOMP1</td>
<td>PL02</td>
<td>PSA-001</td>
<td>PSWM</td>
<td>W02</td>
<td>1</td>
<td>PL02</td>
<td>AFS</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>W02</td>
</tr>
<tr>
<td>KOMPCR1</td>
<td>PL02</td>
<td>PSA-001</td>
<td>PSWM</td>
<td>W02</td>
<td>2</td>
<td>PL02</td>
<td>AFS</td>
<td>2</td>
<td>50</td>
<td>EA</td>
<td>W02</td>
</tr>
<tr>
<td>KOMPR1</td>
<td>PL02</td>
<td>PSA-001</td>
<td>PSWM</td>
<td>W02</td>
<td>3</td>
<td>PL02</td>
<td>AFS</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>W02</td>
</tr>
<tr>
<td>KOMP2</td>
<td>PL02</td>
<td>PSA-002</td>
<td>AFS</td>
<td>W02</td>
<td>1</td>
<td>PL02</td>
<td>AFS</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>W02</td>
</tr>
<tr>
<td>KOMPCR2</td>
<td>PL02</td>
<td>PSA-002</td>
<td>AFS</td>
<td>W02</td>
<td>2</td>
<td>PL02</td>
<td>AFS</td>
<td>2</td>
<td>50</td>
<td>EA</td>
<td>W02</td>
</tr>
<tr>
<td>KOMPR2</td>
<td>PL02</td>
<td>PSA-002</td>
<td>AFS</td>
<td>W02</td>
<td>3</td>
<td>PL02</td>
<td>AFS</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>W02</td>
</tr>
<tr>
<td>KOMP3</td>
<td>PL02</td>
<td>PSA-003</td>
<td>PSIM</td>
<td>-</td>
<td>1</td>
<td>PL02</td>
<td>AFS</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>W02</td>
</tr>
<tr>
<td>KOMPR3</td>
<td>PL02</td>
<td>PSA-003</td>
<td>PSIM</td>
<td>-</td>
<td>3</td>
<td>PL02</td>
<td>AFS</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>W02</td>
</tr>
</tbody>
</table>

3. Save your entries

### 4.3.6 Create Control Cycles for KANBAN (Mandatory)

You use this procedure to create KANBAN control cycles in SAP ERP

#### Procedure

1. In the easy access menu for SAP ERP choose Logistics → Production → KANBAN → Control Cycle → Control Cycle Maintenance (Or use transaction PKMC)

2. Create the following Control Cycles
3. Save your entries

### 4.3.7 Create Work Center (Mandatory)

You use this procedure to set up a work center for your production

#### Procedure

1. In the easy access menu for SAP ERP choose *Logistics → Production → Master Data → Work Center → Create* (Or use transaction CR01)

2. Create the following entry

<table>
<thead>
<tr>
<th>View/Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>/-Plant</td>
<td>PL02</td>
</tr>
<tr>
<td>/-Work Center</td>
<td>WC01</td>
</tr>
<tr>
<td>/-Description</td>
<td>WC01</td>
</tr>
<tr>
<td>Basic Data/Work Center Category</td>
<td>0001</td>
</tr>
<tr>
<td>Basic Data/Person Responsible</td>
<td>001</td>
</tr>
<tr>
<td>Basic Data/Usage</td>
<td>009</td>
</tr>
<tr>
<td>Basic Data/Standard Value Key</td>
<td>SAP1</td>
</tr>
<tr>
<td>Default Values/Control Key</td>
<td>PP01</td>
</tr>
<tr>
<td>Default Values/UoM of standard Value ‘Setup’</td>
<td>MIN</td>
</tr>
<tr>
<td>Default Values/UoM of standard Value ‘Machine’</td>
<td>MIN</td>
</tr>
<tr>
<td>Default Values/UoM of standard Value ‘Labor’</td>
<td>MIN</td>
</tr>
</tbody>
</table>
How To Configure Production Integration

Capacities/Setup Formula | SAP005
---|---
Capacities/Processing Formula | SAP006
Scheduling/Capacity category | 001
Costing/Cost Center | SAP-DUMMY

3. Save your entry.

### 4.3.8 Create Routing (Mandatory)

You use this procedure to create a routing for your finished product in your plant.

**Procedure**

1. In the easy access menu for SAP ERP choose Logistics → Production → Master Data → Routings → Routings → Standard Routings → Create (Or use transaction CA01)
2. Create the following entry

<table>
<thead>
<tr>
<th>Finished Product</th>
<th>Plant</th>
<th>Usage</th>
<th>Status</th>
<th>To Lot Size</th>
<th>Work Center</th>
<th>Control Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>FERT1</td>
<td>PL02</td>
<td>1</td>
<td>4</td>
<td>99,999,999</td>
<td>WC01</td>
<td>PP01</td>
</tr>
<tr>
<td>FERT2</td>
<td>PL02</td>
<td>1</td>
<td>4</td>
<td>99,999,999</td>
<td>WC01</td>
<td>PP01</td>
</tr>
<tr>
<td>FERT3</td>
<td>PL02</td>
<td>1</td>
<td>4</td>
<td>99,999,999</td>
<td>WC01</td>
<td>PP01</td>
</tr>
</tbody>
</table>

3. Save your entry

### 4.3.9 Create Bill of Materials (Mandatory)

You use this procedure to create a bill of material for your finished products.

**Procedure**

1. In the easy access menu for SAP ERP choose Logistics → Production → Master Data → Bills of Material → Bill of Material → Material BOM → Create (or use transaction CS01)
2. Create the following entry

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>FERT1</td>
</tr>
<tr>
<td>Plant</td>
<td>PL02</td>
</tr>
<tr>
<td>BOM Usage</td>
<td>1</td>
</tr>
</tbody>
</table>

3. Create the following entries for the components

<table>
<thead>
<tr>
<th>Component</th>
<th>Item Category</th>
<th>Quantity</th>
<th>Prod.locat.</th>
<th>Prodn Supply Area</th>
<th>Prodn Relevant</th>
<th>Bulk Material</th>
<th>Costing Relevncy</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOMP1</td>
<td>L</td>
<td>1</td>
<td>PSWM</td>
<td>PSA-001</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>KOMPR1</td>
<td>L</td>
<td>1</td>
<td>PSWM</td>
<td>PSA-001</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>KOMPCC1</td>
<td>L</td>
<td>1</td>
<td>PSWM</td>
<td>PSA-001</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>KOMPPCC1</td>
<td>L</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

4. Save your entry.
5. Create the following entry
How To Configure Production Integration

December 2013

20

Field | Value
---|---
Material | FERT2
Plant | PL02
BOM Usage | 1

6. Create the following entries for the components

<table>
<thead>
<tr>
<th>Component</th>
<th>Item Category</th>
<th>Quantity</th>
<th>Prod.stor.locat</th>
<th>Prodn Supply Area</th>
<th>Production Relevant</th>
<th>Bulk Material</th>
<th>Costing Relevncy</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOMP2</td>
<td>L</td>
<td>1</td>
<td>AFS</td>
<td>PSA-002</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>KOMPR2</td>
<td>L</td>
<td>1</td>
<td>AFS</td>
<td>PSA-002</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>KOMPCR2</td>
<td>L</td>
<td>1</td>
<td>AFS</td>
<td>PSA-002</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>KOMPK2</td>
<td>L</td>
<td>1</td>
<td>AFS</td>
<td>PSA-002</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>KOMPKCC2</td>
<td>L</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

7. Save your entry.

8. Create the following entry

Field | Value
---|---
Material | FERT3
Plant | PL02
BOM Usage | 1

9. Create the following entries for the components

<table>
<thead>
<tr>
<th>Component</th>
<th>Item Category</th>
<th>Quantity</th>
<th>Prod.stor.locat</th>
<th>Prodn Supply Area</th>
<th>Production Relevant</th>
<th>Bulk Material</th>
<th>Costing Relevncy</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOMP3</td>
<td>L</td>
<td>1</td>
<td>PSIM</td>
<td>PSA-003</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>KOMPR3</td>
<td>L</td>
<td>1</td>
<td>PSIM</td>
<td>PSA-003</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>KOMPK3</td>
<td>L</td>
<td>1</td>
<td>PSIM</td>
<td>PSA-003</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>KOMPKCC3</td>
<td>L</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

10. Save your entry.

11. Create the following entry

Field | Value
---|---
Material | SERIFERT3
Plant | PL02
BOM Usage | 1

12. Create the following entries for the components

<table>
<thead>
<tr>
<th>Component</th>
<th>Item Category</th>
<th>Quantity</th>
<th>Prod.stor.locat</th>
<th>Prodn Supply Area</th>
<th>Production Relevant</th>
<th>Costing Relevncy</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOMPK3</td>
<td>L</td>
<td>1</td>
<td>PSIM</td>
<td>PSA-003</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

13. Save your entry.
4.3.10 Create Process Product Cost Collector (Mandatory)
You use this procedure to create a product cost collector for your REM finished product

Procedure
1. In the easy access menu for SAP ERP choose Logistics → Production → Repetitive Manufacturing → Master Data → Product Cost Collector → Process Product Cost Collector (Or use transaction KKF6N)
2. Create the following entry

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant</td>
<td>PL02</td>
</tr>
<tr>
<td>Finished Product REM</td>
<td>SERIFERT3</td>
</tr>
<tr>
<td>Production Version</td>
<td>0001</td>
</tr>
<tr>
<td>Profit Center</td>
<td>SAP-DUMMY</td>
</tr>
<tr>
<td>Business Area</td>
<td>0001</td>
</tr>
<tr>
<td>Cstg variant planned</td>
<td>PREM</td>
</tr>
<tr>
<td>Cstg variant actual</td>
<td>PPP3</td>
</tr>
<tr>
<td>Costing sheet</td>
<td>PP-PC1</td>
</tr>
<tr>
<td>Results analysis key</td>
<td>000003</td>
</tr>
<tr>
<td>Company Code</td>
<td>0001</td>
</tr>
<tr>
<td>Order Type</td>
<td>RM01</td>
</tr>
</tbody>
</table>

3. Save your entry.

4.3.11 Create Packing Instruction (Mandatory)
You use this procedure to create a packing instruction for automatic HU creation proposal after production of finished goods.

Procedure
1. In the easy access menu for SAP ERP choose Logistics → Central Functions → Handling Unit Management → Master Data → Packing Instructions → Create (Or use transaction POP1)
2. Create the following entry

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PackInstructn</td>
<td>SERIFERT3/10/A</td>
</tr>
<tr>
<td>Short Text</td>
<td>SERIFERT3/10/A</td>
</tr>
<tr>
<td>Item</td>
<td>10</td>
</tr>
<tr>
<td>Item category</td>
<td>P</td>
</tr>
<tr>
<td>Component</td>
<td>EUROPALLET</td>
</tr>
<tr>
<td>Target Quantity</td>
<td>1</td>
</tr>
<tr>
<td>UoM</td>
<td>EA</td>
</tr>
<tr>
<td>Item</td>
<td>20</td>
</tr>
<tr>
<td>Item category</td>
<td>M</td>
</tr>
</tbody>
</table>
Component | SERIFERT3
---|---
Target Quantity | 10
UoM | EA

3. Save your entry

4.3.12 Create Condition Record for Packing Instruction Determination (Mandatory)

You use this procedure to create a condition record for packing instruction determination.

**Procedure**

1. In the easy access menu for SAP ERP choose *Logistics → Central Functions → Handling Unit Management → Master Data → Packing Instruction Determination Records → Create* (Or use transaction POF1)
2. Create the following entry:

<table>
<thead>
<tr>
<th>Determination Type</th>
<th>Key Kombination</th>
<th>Material</th>
<th>Packing instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOC</td>
<td>Material</td>
<td>SERIFERT3</td>
<td>SERIFERT3/10/A</td>
</tr>
</tbody>
</table>

3. Save your entry.

4.4 Settings and Master Data in EWM

4.4.1 Maintain Queue Sequence for Resource Group (Mandatory)

You use this procedure to maintain queue sequence for resource group in SAP EWM.

**Procedure**

1. In the easy access menu for SAP EWM choose *Extended Warehouse Management → Master Data → Resource Management → Maintain Queue Sequence for Resource Group*
2. Create the following entry:

<table>
<thead>
<tr>
<th>Warehouse No.</th>
<th>RsrecGrp</th>
<th>SequenceNo.</th>
<th>Queue</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>RG01</td>
<td>5</td>
<td>Q-915-010</td>
</tr>
</tbody>
</table>

3. Save your entry

4.4.2 Replicate the PSA in EWM (Mandatory)

You use this procedure to replicate the PSA from ERP to EWM

**Procedure**

1. In the easy access menu for SAP EWM choose *Interfaces → ERP Integration → Replicate Production Supply Area*
2. Enter the following data and start the report
### 4.4.3 Define PSA in EWM (Mandatory)

You use this procedure to define an automatic GI for a production supply delivery when the stock arrives at the production supply area (PSA).

**Procedure**

1. In the easy access menu for SAP EWM choose *Master Data → Production Supply Area → Define PSA*
2. Change the following entry in column Trigger GI for PSA-003 as shown in the table

<table>
<thead>
<tr>
<th>Warehouse No.</th>
<th>PSA Description</th>
<th>Trigger GI</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>PSA-001 /PL02</td>
<td>-</td>
</tr>
<tr>
<td>W002</td>
<td>PSA-002 /PL02</td>
<td>-</td>
</tr>
<tr>
<td>W002</td>
<td>PSA-003 /PL02</td>
<td>X</td>
</tr>
</tbody>
</table>

3. Save your changes

### 4.4.4 Create Bins (Mandatory)

You use this procedure to create storage bins to be assigned to your PSAs.

**Procedure**

1. In the easy access menu for SAP EWM choose *Master Data → Storage Bin → Create Storage Bin* (Or use transaction /SCWM/LS01)
2. Create the following entries

<table>
<thead>
<tr>
<th>Warehouse No.</th>
<th>Storage Bin</th>
<th>Storage Type</th>
<th>Storage Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>PSA1-001</td>
<td>T100</td>
<td>S001</td>
</tr>
<tr>
<td>W002</td>
<td>PSA2-001</td>
<td>T105</td>
<td>S001</td>
</tr>
<tr>
<td>W002</td>
<td>PSA3-001</td>
<td>T105</td>
<td>S001</td>
</tr>
<tr>
<td>W002</td>
<td>STAGE-I04</td>
<td>T915</td>
<td>S001</td>
</tr>
</tbody>
</table>

3. Save your entries.

### 4.4.5 Assign Product to a Bin in the PSA (Mandatory)

You use this procedure to assign a bin to your products, product groups or just to your PSA.

**Procedure**

1. In the easy access menu for SAP EWM choose *Master Data → Production Supply Area → Assign Bin to PSA/Product/Entitled in Warehouse Number* (Or use transaction /SCWM/PSASTAGE)
2. Create at least the following entries
3. Save your entries

### 4.4.6 Staging Area and Door Determination Inbound (Mandatory)

You use this procedure to configure the determination of Staging Area, Door, and Goods Movement Bin:

**Procedure**

1. In the easy access menu for SAP EWM choose *SCM Extended Warehouse Management → Settings → Shipping and Receiving → Staging Area and Door Determination (Inbound)*
2. Create the following entries

   **Note**
   You might have to change the view to your new warehouse. Choose from the menu *table view → other view*. Enter your warehouse number e.g. W002 and press enter.

<table>
<thead>
<tr>
<th>Warehouse</th>
<th>Warehouse Process Type</th>
<th>Sequence No.</th>
<th>Staging Area Group</th>
<th>Staging Area</th>
<th>Staging Bay</th>
<th>Door</th>
</tr>
</thead>
<tbody>
<tr>
<td>W002</td>
<td>P113</td>
<td>-</td>
<td>T915</td>
<td>S001</td>
<td>STAGE-004</td>
<td>-</td>
</tr>
</tbody>
</table>

3. Save your entry.

### 4.4.7 Create Packaging Specification and Determination Record for Automatic HU Creation (Mandatory)

You use this procedure to create packaging specifications for automatic packing and HU creation during inbound delivery creation from production

**Procedure**
1. In the easy access menu for SAP EWM choose *Extended Warehouse Management → Master Data → Packaging Specification → Maintain Packaging Specification* (Or use transaction SCWM/PACKSPEC)

2. Create the following packaging specifications

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>General packaging information</td>
<td>Product <strong>FERT1 － FERT3</strong> (one pack. spec. per product)</td>
</tr>
<tr>
<td></td>
<td>1 pallet = <strong>10 EA</strong></td>
</tr>
<tr>
<td>Pack. Spec. Header Data</td>
<td>PS Group: <strong>PG01</strong></td>
</tr>
<tr>
<td></td>
<td>Level Set: <strong>LS01</strong></td>
</tr>
<tr>
<td>Content</td>
<td>Product <strong>FERT1 － FERT3</strong> (1 EA)</td>
</tr>
<tr>
<td></td>
<td>No dimension/weight/volume defined here</td>
</tr>
<tr>
<td>Pack. Spec. Main Level (pallet)</td>
<td><strong>Level Type LT01</strong></td>
</tr>
<tr>
<td></td>
<td><em>Warehouse Data:</em></td>
</tr>
<tr>
<td></td>
<td>Quantity Classification: -</td>
</tr>
<tr>
<td></td>
<td><strong>HU Type: E1</strong> (Europallet)</td>
</tr>
<tr>
<td></td>
<td>Operative UoM: -</td>
</tr>
<tr>
<td></td>
<td><strong>Element (packaging material):</strong></td>
</tr>
<tr>
<td></td>
<td>Target Quantity: 10 (eaches per pallet)</td>
</tr>
<tr>
<td></td>
<td>Total Quantity: 10 (eaches per pallet)</td>
</tr>
<tr>
<td></td>
<td><strong>HU Creation: X</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Pack. material EUROPALLET (1 EA)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>HU Relevance: 1 (Main Packaging Material)</strong></td>
</tr>
<tr>
<td>Determination via Condition Record</td>
<td><strong>Condition Type 0IBD (PackMatPropProc)</strong></td>
</tr>
<tr>
<td>0IBD</td>
<td><strong>Determination by: SCU, product</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Condition record: one 0IBD condition record with product for the packaging specification of the same product</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Used in Processes:</strong></td>
</tr>
<tr>
<td></td>
<td>• Inbound Process from Discrete Production</td>
</tr>
</tbody>
</table>

3. Save your entries

4.4.8 Create Determination Records for Printing HU Content Labels (Mandatory)

You use this procedure to create condition records for printing of HU content labels during GR from production. The condition record decides if printing should take place. The decision is based on the fields maintained in the condition record. Once the system has decided to create a printout, the condition record also determines the printer, form, and spool data.
Procedure

1. In the easy access menu for SAP EWM, choose Work Scheduling → Print → Settings → Create Condition Records for Printing (HUs) (Or use transaction PRHU6).
2. On the selection screen, enter application PHU, maintenance group PHU, and choose Execute (F8).
3. On the Selection of key combination screen, choose condition table SAPHU002.
4. Create the following entries:

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condition Type</td>
<td>0HU1</td>
</tr>
<tr>
<td>Process Step for HU Completed</td>
<td>-</td>
</tr>
<tr>
<td>HU Type</td>
<td>E1</td>
</tr>
<tr>
<td>Warehouse</td>
<td>W002</td>
</tr>
<tr>
<td>HU Step</td>
<td>I</td>
</tr>
<tr>
<td>Packaging Material</td>
<td>EUROPALLET</td>
</tr>
<tr>
<td>Work Center</td>
<td>-</td>
</tr>
<tr>
<td>Form</td>
<td>/SCWM/HU_LABEL</td>
</tr>
<tr>
<td>Printer</td>
<td>LP01</td>
</tr>
<tr>
<td>Spool Data</td>
<td>01</td>
</tr>
<tr>
<td>PPF: Name of Action Definition</td>
<td>HU_LABEL_GENERAL_AND_RF</td>
</tr>
</tbody>
</table>

5. Save your entry

4.4.9 Create Determination Records for Automatic GR Posting (Mandatory)

You use this procedure to create condition records for automatic GR posting.

Procedure

1. In the easy access menu for SAP EWM choose Extended Warehouse Management -> Delivery Processing -> Actions -> Maintain Condition Records for PPF Schedule Conditions (Validity Today's Date to 31.12.9999) (Or use transaction /SCWM/DLVPPFC)
2. Create the following entries for application DPP, maintenance group 0_RPMA and maintenance context GCM:

<table>
<thead>
<tr>
<th>Condition Type</th>
<th>DocCat.</th>
<th>DocTy.</th>
<th>ChgMod</th>
</tr>
</thead>
<tbody>
<tr>
<td>0RMA</td>
<td>PDI</td>
<td>IRM</td>
<td>I</td>
</tr>
</tbody>
</table>

3. Save your entry.
5. Appendix

Testcases
The following test cases do not describe business processes but rather show existing functionality of the integration of SAP EWM and SAP ERP Production Planning and Control.

Prerequisite
You need to upload stock of your products into the warehouse in order to have stock available for staging of the components to production. You can use the csv-file ISU_PRODINT_05.csv attached to note 1888397 as an example template for the stock upload.

Note
It might be necessary to change the data of the csv-file according to the data that fits to your preconfigured warehouse, e.g. owner and entitled. See also note 974852 for further information about stock upload via transaction /SCWM/ISU.

Procedure
1. In the easy access menu of SAP EWM choose Extended Warehouse Management → Interfaces → Data Upload → Stock Data Transfer
2. Enter warehouse number W002 and choose Local File
3. Press pushbutton Open Folder
4. Select the adapted file ISU_PRODINT_05.csv
5. Press Upload
6. In case of a green status press Start Stock Data Transfer

5.1 Process Testcase for Production Integration Using two EWM Managed Storage Locations for Warehouse and Production

<table>
<thead>
<tr>
<th>Step</th>
<th>Step description</th>
<th>Input data</th>
<th>Expected results</th>
</tr>
</thead>
</table>
| 1.   | Create a production order in ERP | 1. In SAP ERP, start transaction CO01.  
2. Enter the following data:  
1. Material: FERT1  
2. Production Plant: PL02  
3. Order Type: PP01  
3. Choose Enter.  
4. Enter the following data:  
1. Quantity: 10  
2. UoM: ea  
3. End Date: <Todays Date>  
5. Press Release Order  
6. From the menu choose Functions → WM Material Staging → Execute  
7. Press Save | A production order is created and released and an outbound delivery for staging of pick parts is created. The outbound delivery is replicated to EWM. Note down the production order number for later use |
<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Instructions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Display the outbound delivery for the production order</td>
<td>1. In SAP ERP start transaction VL06O 2. Press List Outbound Deliveries 3. Enter the following data: 1. Order: <code>&lt;production order number&gt;</code> 4. Press Execute</td>
<td>The list of related ERP outbound deliveries is displayed. Via double click an outbound delivery can be displayed.</td>
</tr>
<tr>
<td>3.</td>
<td>Display the posting change delivery in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/IM_PC 2. Choose production order as criteria for the simple search and enter the ERP production order number in the simple search field 3. Press Execute</td>
<td>EWM posting change document is displayed. You can check the following data: The destination stock type is P2. The PSA is PSA-001. The destination storage bin is PSA1-001.</td>
</tr>
<tr>
<td>4.</td>
<td>Create warehouse task for posting change</td>
<td>1. From the menu choose Posting Change → Follow-On Functions → Warehouse Task (or call transaction /SCWM/TODLV_T) 2. Press push button Create + Save</td>
<td>Warehouse task for movement of the product KOMP1 from storage type T020 to PSA PSA-001 is created. Note down the warehouse order number for later use</td>
</tr>
<tr>
<td>5.</td>
<td>Confirm warehouse task for posting change</td>
<td>1. From the menu choose Warehouse task → Confirm (or call transaction /SCWM/TO_CONF) 2. Press push button Confirm + Save</td>
<td>Warehouse task is confirmed</td>
</tr>
<tr>
<td>6.</td>
<td>Display PSA Stock in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/MON 2. Choose node Stock and Bin → Available Stock 3. Enter product number KOMP1 4. Press Execute</td>
<td>The staged quantity is now available on the storage bin PSA1-001 of the PSA PSA-001. The stock type is P2.</td>
</tr>
<tr>
<td>7.</td>
<td>Display goods movement for outbound delivery for production supply in ERP</td>
<td>1. In SAP ERP start transaction VL03N 2. Enter the ERP delivery number and choose Environment → Document Flow (F7). 3. Press push button Display Material Document.</td>
<td>The material document item has movement type 411. The destination storage location is PSWM.</td>
</tr>
<tr>
<td>8.</td>
<td>Display ERP stock</td>
<td>1. In SAP ERP start transaction MMBE 2. Enter material KOMP1 3. Enter plant PL02 4. Press Execute</td>
<td>The quantity is now in unrestricted use in storage location PSWM</td>
</tr>
<tr>
<td>9.</td>
<td>Trigger the material staging for release order part</td>
<td>1. In SAP ERP start transaction MF60 2. Select only Staging Type EWM Rel. Parts 3. Enter the plant PL02 4. Enter Prodn Supply Area: PSA–001 5. Press Execute 6. Press push button Replenishment Elements (Shift + F2) 7. Press Create Replenishment Proposals 8. Press Stage</td>
<td>The outbound delivery for staging of release order parts KOMP1 is saved and replicated to EWM</td>
</tr>
<tr>
<td>Step</td>
<td>Step description</td>
<td>Input data</td>
<td>Expected results</td>
</tr>
<tr>
<td>------</td>
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</tr>
<tr>
<td>9.</td>
<td>Press Save</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Display the posting change delivery in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/IM_PC 2. Press push button Open Advanced Search 3. Enter the following data: Document Type: TPS Status (Item): DWA = 1 4. Press Advanced Search 5. Press Execute 6. On tabstrip Reference Documents check Ref.Doc. of Ref. Document Cat. = ERP Document</td>
<td>EWM posting change document is displayed. You can check the following data: The destination stock type is P2. The PSA is PSA-001 The destination storage bin is PSA1-001. Note down the ERP Document for later use</td>
</tr>
<tr>
<td>11.</td>
<td>Create warehouse task for posting change</td>
<td>1. From the menu choose Posting change → Follow-On Functions → Warehouse Task (or call transaction /SCWM/TODLV_T) 2. Press push button Create + Save</td>
<td>Warehouse task for movement of the product KOMPR1 from storage type T020 to PSA-001 is created. Note down the warehouse order number for later use</td>
</tr>
<tr>
<td>12.</td>
<td>Confirm warehouse task for posting change</td>
<td>1. From the menu choose Warehouse task → Confirm (or call transaction /SCWM/TO_CONF) 2. Press push button Confirm + Save</td>
<td>Warehouse task is confirmed</td>
</tr>
<tr>
<td>15.</td>
<td>Display ERP stock</td>
<td>1. In SAP ERP start transaction MMBE 2. Enter material KOMPR1 3. Enter plant PL02 4. Press Execute</td>
<td>The quantity is now in unrestricted use in storage location PSWM</td>
</tr>
<tr>
<td>16.</td>
<td>Trigger material staging via stock transfer kanban</td>
<td>1. In SAP ERP start transaction PK13N 2. Enter Plant: PL02 3. Select Production Supply Area 4. Enter PSA: PSA-001 5. Press Enter 6. Select one kanban for material KOMPK1 7. Press push button To Empty 8. Double click on the kanban to get the kanban information</td>
<td>Kanban status has changed from 'wait' or 'full' to 'empty'. Outbound delivery gets created and saved and replicated to EWM. Note down the outbound delivery number from the kanban information for later use</td>
</tr>
<tr>
<td>Step</td>
<td>Step description</td>
<td>Input data</td>
<td>Expected results</td>
</tr>
<tr>
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</tr>
<tr>
<td>17.</td>
<td>Display the posting change delivery in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/IM_PC 2. Choose ERP document as criteria for the simple search and enter the ERP outbound delivery number in the simple search field 3. Press Execute</td>
<td>EWM posting change document is displayed. You can check the following data: The destination stock type is P2. The PSA is PSA-001 The destination storage bin is PSA-001.</td>
</tr>
<tr>
<td>18.</td>
<td>Create warehouse task for posting change</td>
<td>1. From the menu choose Posting Change → Follow-On Functions → Warehouse Task (or call transaction /SCWM/TODLV_T) 2. Press push button Create + Save</td>
<td>Warehouse task for movement of the product KOMPK1 from storage type T020 to PSA PSA-001 is created. Note down the warehouse order number for later use</td>
</tr>
<tr>
<td>19.</td>
<td>Confirm warehouse task for posting change</td>
<td>1. From the menu choose Warehouse task → Confirm (or call transaction /SCWM/TO_CONF) 2. Press push button Confirm + Save</td>
<td>Warehouse task is confirmed</td>
</tr>
<tr>
<td>20.</td>
<td>Display PSA Stock in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/MON 2. Choose node Stock and Bin → Available Stock 3. Enter product number KOMPK1 4. Press Execute.</td>
<td>The material document items have movement type 411. The destination storage location is PSWM.</td>
</tr>
<tr>
<td>22.</td>
<td>Display ERP stock</td>
<td>1. In SAP ERP start transaction MMBE 2. Enter material KOMPK1 3. Enter plant PL02 4. Press Execute</td>
<td>Kanban status for the kanban of product KOMPK1 has switched from status ‘empty’ to status ‘full’</td>
</tr>
<tr>
<td>23.</td>
<td>Check the status of the kanban</td>
<td>1. In SAP ERP start transaction PK13N 2. Enter Plant: PL02 3. Select Production Supply Area 4. Enter PSA: PSA-001 5. Press Enter</td>
<td>Kanban status has changed from ‘wait’ or ‘full’ to ‘empty’. Outbound delivery gets created and saved and replicated to EWM Note down the outbound delivery number from the kanban information for later use</td>
</tr>
<tr>
<td>24.</td>
<td>Trigger material staging via stock transfer kanban with consumption to cost center</td>
<td>1. In SAP ERP start transaction PK13N 2. Enter Plant: PL02 3. Select Production Supply Area 4. Enter PSA: PSA-001 5. Press Enter 6. Select one kanban of material KOMPKCC1 7. Press push button To Empty</td>
<td>Kanban status for the kanban of product KOMPK1 has switched from status ‘empty’ to status ‘full’ Outbound delivery gets created and saved and replicated to EWM Note down the outbound delivery number from the kanban information for later use</td>
</tr>
<tr>
<td>Step</td>
<td>Step description</td>
<td>Input data</td>
<td>Expected results</td>
</tr>
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</tr>
<tr>
<td>25.</td>
<td>Display the posting change delivery in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/IM_PC &lt;br&gt;2. Choose ERP document as criteria for the simple search and enter the ERP outbound delivery number in the simple search field &lt;br&gt;3. Press Execute</td>
<td>EWM posting change document is displayed. You can check the following data: &lt;br&gt;The destination stock type is P2. &lt;br&gt;The PSA is PSA-001 &lt;br&gt;The destination storage bin is PSA-001.</td>
</tr>
<tr>
<td>26.</td>
<td>Create warehouse task for posting change</td>
<td>1. From the menu choose Posting Change → Follow-On Functions → Warehouse Task (or call transaction /SCWM/TODLV_T) &lt;br&gt;2. Press push button Create + Save</td>
<td>Warehouse task for movement of the product KOMPKCC1 from storage type T020 to PSA PSA-001 is created. &lt;br&gt;Note down the warehouse order number for later use</td>
</tr>
<tr>
<td>27.</td>
<td>Confirm warehouse task for posting change</td>
<td>1. From the menu choose Warehouse Task → Confirm (or call transaction /SCWM/TO_CONF) &lt;br&gt;2. Press push button Confirm + Save</td>
<td>Warehouse task is confirmed</td>
</tr>
<tr>
<td>28.</td>
<td>Display PSA Stock in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/MON &lt;br&gt;2. Choose node Stock and Bin → Available Stock &lt;br&gt;3. Enter product number KOMPKCC1 &lt;br&gt;4. Press Execute.</td>
<td>The staged quantity is now available on the storage bin PSA1-001 of the PSA PSA-001. The stock type is P2.</td>
</tr>
<tr>
<td>29.</td>
<td>Display goods movement for outbound delivery</td>
<td>1. In SAP ERP start transaction VL03N &lt;br&gt;2. Enter the ERP Document and choose Environment → Document Flow (F7). &lt;br&gt;3. Select goods movement document &lt;br&gt;4. Press push button Display document.</td>
<td>The material document items have movement type 411. The destination storage location is PSWM.</td>
</tr>
<tr>
<td>30.</td>
<td>Display ERP stock</td>
<td>1. In SAP ERP start transaction MMBE &lt;br&gt;2. Enter material KOMPKCC1 &lt;br&gt;3. Enter plant PL02 &lt;br&gt;4. Press Execute</td>
<td>The quantity is now in unrestricted use in storage location PSWM</td>
</tr>
<tr>
<td>31.</td>
<td>Check the status of the kanban</td>
<td>1. In SAP ERP start transaction PK13N &lt;br&gt;2. Enter Plant: PL02 &lt;br&gt;3. Select Production Supply Area &lt;br&gt;4. Enter PSA: PSA-001 &lt;br&gt;5. Press Enter</td>
<td>Kanban status for the kanban of product KOMKCC1 has switched from status 'empty' to status 'full'</td>
</tr>
<tr>
<td>32.</td>
<td>Trigger the crate part replenishment</td>
<td>1. In SAP EWM start transaction /SCWM/REPL</td>
<td>Warehouse task for movement of the product</td>
</tr>
</tbody>
</table>

**Note:** With changing the status from full to empty not only a stock transfer outbound delivery gets created but also an outbound delivery for consumption to cost center.
<table>
<thead>
<tr>
<th>Step</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>in EWM 1. Select Crate Part Replenishment. 2. Enter the warehouse number W002 3. Enter the PSA PSA-001 4. Press Execute 5. Select the item you want to replenish 6. Press WT Immed.</td>
<td>KOMPCR1 from storage type T020 to PSA PSA-001 is created. Note down the warehouse task number for later use</td>
<td></td>
</tr>
<tr>
<td>33.</td>
<td>Confirm warehouse task for crate part replenishment 1. In SAP EWM start transaction /SCWM/TO_CONF 2. Choose warehouse task as criteria for the simple search and enter the warehouse task number in the simple search field 3. Press Execute 4. Press push button Confirm + Save</td>
<td>Warehouse task is confirmed</td>
<td></td>
</tr>
<tr>
<td>34.</td>
<td>5. In SAP EWM start transaction /SCWM/MON 6. Enter product number KOMPCR1</td>
<td>The staged quantity is now available on the storage bin PSA1-001 of the PSA PSA-001. The stock type is P2.</td>
<td></td>
</tr>
<tr>
<td>35.</td>
<td>7. Enter product number KOMPCR1 8. Press Enter</td>
<td>The quantity is now in unrestricted use in storage location PSWM</td>
<td></td>
</tr>
<tr>
<td>36.</td>
<td>9. In SAP ERP start transaction CO15 10. Enter the production order 11. Select Final Confirm. 12. Enter the following data: 1. Yield to conf.: 10 13. Press Save</td>
<td>Production order is confirmed and saved Consumption delivery is created in ERP and replicated to EWM The stock to be posted GI is determined automatically and posted GI automatically in EWM The posted goods issue is replicated to ERP The consumption delivery in ERP is updated with the GI status and with an entry in the document flow about the corresponding material document The production order and the reservations in ERP are updated about the posted GI</td>
<td></td>
</tr>
<tr>
<td>37.</td>
<td>14. In SAP ERP start transaction VL06O 15. Press List Outbound Deliveries 16. Enter the following data: 1. Order: &lt;production order number&gt;</td>
<td>The list of related ERP outbound deliveries is displayed. Via double click an outbound delivery can be displayed.</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>Step description</td>
<td>Input data</td>
<td>Expected results</td>
</tr>
<tr>
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</tr>
<tr>
<td>4.</td>
<td>Press <em>Execute</em></td>
<td></td>
<td>Note down the consumption outbound delivery number for later use.</td>
</tr>
</tbody>
</table>
| 38.  | Display goods movement for outbound delivery for consumption in ERP | 1. In SAP ERP start transaction VL03N  
2. Enter the ERP delivery number and choose *Environment → Document Flow* (F7).  
3. Display the material document. | The material document items have movement type 261. The storage location is PSWM. |
| 39.  | Display PSA Stock in EWM | 1. In SAP EWM start transaction /SCWM/MON  
2. Choose node *Stock and Bin → Available Stock*  
3. Enter product number KOMP1, KOMP1, KOMPK1, KOMPCR1  
4. Press *Execute*. | The staged quantity is now reduced on the storage bin of the PSA by the consumption delivery quantity |
| 40.  | Display ERP stock | 1. In SAP ERP start transaction MM**BE**  
2. Enter material KOMP1, KOMP1, KOMPK1, KOMPCR1  
3. Enter plant PL02  
4. Press *Enter* | The quantity is now reduced by the consumption delivery quantity in storage location PSWM |
| 41.  | Display inbound delivery for GR in ERP | 1. In SAP ERP start transaction CO14  
2. Enter the production order number  
3. Press *Enter*  
4. Press push button *Goods Movements*  
5. In the goods movement overview scroll to column *Delivery* to get the inbound delivery number for the GR in ERP (First row) | Inbound delivery number is displayed  
Note down the inbound delivery number for later use |
| 42.  | Display inbound delivery in EWM | 1. In SAP EWM start transaction /SCWM/PRDI  
2. choose production order as criteria for the simple search and enter the ERP production order number in the simple search field  
3. Press *Execute*  
4. Choose tabstrip *HU* | EWM inbound delivery is displayed  
HU is displayed  
Note down the HU number for later use |
| 43.  | Create warehouse task for Inbound Delivery | 1. From the menu choose *Inbound Delivery → Follow-On Functions → Warehouse Task* (or call transaction /SCWM/TODLV_I)  
2. Press push button *Create + Save* | Warehouse task for movement of HU of the finished product FERT1 from storage type T915 to T010 is created.  
Note down the warehouse order number for later use |
| 44.  | Confirm putaway of HU to final bin | 1. In SAP EWM start transaction /SCWM/RFUI  
2. Enter the following data    
   1. Whse No.: W002  
   2. Resource: FLT1  
   3. DelPresDvc.: PD01  
3. Press *Enter*  
4. In the RF menu press *01 System Guided* | Warehouse task is confirmed, GR is posted, inbound delivery is updated accordingly |
## 5.2 Process Testcase for Production Integration Using one EWM Managed Storage Location for Warehouse and Production

<table>
<thead>
<tr>
<th>Step</th>
<th>Step description</th>
<th>Input data</th>
<th>Expected results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Create a production order in ERP</td>
<td>1. In SAP ERP, start transaction CO01. 2. Enter the following data: 1. Material: FERT2 2. Production Plant: PL02 3. Order Type: PP01 3. Choose Enter. 4. Enter the following data: 1. Quantity: 10 2. UoM: ea 3. End Date: &lt;Today's Date&gt; 5. Press Release Order 6. From the menu choose Functions → WM Material Staging → Execute 7. Press Save</td>
<td>A production order is created and released and an outbound delivery for staging of pick parts is created. The outbound delivery is replicated to EWM. Note down the production order number for later use</td>
</tr>
<tr>
<td>2.</td>
<td>Display the outbound delivery for the production order</td>
<td>1. In SAP ERP start transaction VL06O 2. Press List Outbound Deliveries 3. Enter the following data: 1. Order: &lt;production order number&gt; 4. Press Execute</td>
<td>The list of related ERP outbound deliveries is displayed. Via double click an outbound delivery can be displayed.</td>
</tr>
<tr>
<td>3.</td>
<td>Display the posting change delivery in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/IM_PC 2. Choose production order as criteria for the simple search and enter the ERP production order number in the simple search field 3. Press Execute</td>
<td>EWM posting change document is displayed. You can check the following data:  The destination stock type is P2. The PSA is PSA-002 The destination storage bin is PSA2-001.</td>
</tr>
</tbody>
</table>
### How To Configure Production Integration

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| 4.   | Create warehouse task for posting change | 1. From the menu choose *Posting Change → Follow-On Functions → Warehouse Task* (or call transaction `/SCWM/TODLV_T`) 2. Press push button *Create + Save*  
Warehouse task for movement of the product KOMP2 from storage type T020 to PSA PSA-002 is created.  
Note down the warehouse order number for later use |
| 5.   | Confirm warehouse task for posting change | 1. From the menu choose *Warehouse task → Confirm* (or call transaction `/SCWM/TO_CONF`) 2. Press push button *Confirm + Save*  
Warehouse task is confirmed |
| 6.   | Display PSA Stock in EWM | 1. In SAP EWM start transaction `/SCWM/MON`  
2. Choose node *Stock and Bin → Available Stock*  
3. Enter product number KOMP2  
4. Press *Execute.*  
The staged quantity is now available on the storage bin PSA2-001 of the PSA PSA-002. The stock type is P2. |
| 7.   | Display goods movement for outbound delivery for production supply in ERP | 1. In SAP ERP start transaction `/SCWM/MON`  
2. Enter the ERP delivery number and choose *Environment → Document Flow (F7).*  
The material document item has movement type 411. The destination storage location is AFS. |
| 8.   | Trigger the material staging for release order part | 1. In SAP ERP start transaction `/SCWM/MON`  
2. Select only Staging Type *EWM Rel.Parts*  
3. Enter the plant PL02  
4. Enter Prodn Supply Area: PSA-002  
5. Press *Execute*  
6. Press push button *Replenishment Elements (Shift + F2)*  
7. Press *Create Replenishment Proposals*  
8. Press *Stage*  
9. Press *Save*  
The outbound delivery for staging of release order parts KOMP2 is saved and replicated to EWM |
| 9.   | Display the posting change delivery in EWM | 1. In SAP EWM start transaction `/SCWM/IM_PC`  
2. Press push button *Open Advanced Search*  
3. Enter the following data:  
   1. Document Type: TPS  
   2. Status (Item): DWA = 1  
4. Press *Advanced Search*  
5. Press *Execute*  
 
EWM posting change document is displayed. You can check the following data:  
The destination stock type is P2.  
The PSA is PSA-002  
The destination storage bin is PSA2-001.  
Note down the ERP Document for later use |

**December 2013**
<table>
<thead>
<tr>
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<th>Description</th>
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</tr>
</thead>
</table>
| 10. | Create warehouse task for posting change | 1. From the menu choose Posting change → Follow-On Functions → Warehouse Task (or call transaction /SCWM/TODLV_T)  
2. Press push button Create + Save  
Warehouse task for movement of the product KOMP2 from storage type T020 to PSA PSA-002 is created.  
Note down the warehouse order number for later use |
| 11. | Confirm warehouse task for posting change | 1. From the menu choose Warehouse task → Confirm (or call transaction /SCWM/TO_CONF)  
2. Press push button Confirm + Save  
Warehouse task is confirmed |
| 12. | Display PSA Stock in EWM | 1. In SAP EWM start transaction /SCWM/MON  
2. Choose node Stock and Bin → Available Stock  
3. Enter product number KOMP2  
4. Press Execute.  
The staged quantity is now available on the storage bin PSA2-001 of the PSA PSA-002. The stock type is P2. |
| 13. | Display goods movement for outbound delivery for production supply in ERP | 1. In SAP ERP start transaction VL03N  
2. Enter the ERP Document and choose Environment → Document Flow (F7).  
3. Select goods movement document  
The material document items have movement type 411. The destination storage location is AFS. |
| 14. | Trigger material staging via stock transfer kanban | 1. In SAP ERP start transaction PK13N  
2. Enter Plant: PL02  
3. Select Production Supply Area  
4. Enter PSA: PSA-002  
5. Press Enter  
6. Select one kanban for material KOMP2  
7. Press push button To Empty  
8. Double click on the kanban to get the kanban information  
Kanban status has changed from 'wait' or 'full' to 'empty'.  
Outbound delivery gets created and saved and replicated to EWM  
Note down the outbound delivery number from the kanban information for later use |
| 15. | Display the posting change delivery in EWM | 1. In SAP EWM start transaction /SCWM/IM_PC  
2. Choose ERP document as criteria for the simple search and enter the ERP outbound delivery number in the simple search field  
3. Press Execute  
EWM posting change document is displayed. You can check the following data:  
The destination stock type is P2.  
The PSA is PSA-002  
The destination storage bin is PSA2-001. |
| 16. | Create warehouse task for posting change | 1. From the menu choose Posting Change → Follow-On Functions → Warehouse Task (or call transaction /SCWM/TODLV_T)  
2. Press push button Create + Save  
Warehouse task for movement of the product KOMP2 from storage type T020 to PSA PSA-002 is created.  
Note down the warehouse order number for later use |
| 17. | Confirm warehouse task for posting change | 1. From the menu choose Warehouse task → Confirm (or call transaction /SCWM/TO_CONF)  
2. Press push button Confirm + Save  
Warehouse task is confirmed |
<table>
<thead>
<tr>
<th>Step</th>
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</tr>
</thead>
</table>
| 18.  | Display PSA Stock in EWM | 1. In SAP EWM start transaction /SCWM/MON  
2. Choose node Stock and Bin → Available Stock  
3. Enter product number KOMP2  
4. Press Execute. | The staged quantity is now available on the storage bin PSA2-001 of the PSA PSA-002. The stock type is P2. |
| 19.  | Display goods movement for outbound delivery for production supply in ERP | 1. In SAP ERP start transaction VL03N  
2. Enter the ERP Document and choose Environment → Document Flow (F7).  
3. Select goods movement document  
4. Press push button Display document. | The material document items have movement type 411. The destination storage location is AFS. |
| 20.  | Check the status of the kanban | 1. In SAP ERP start transaction PK13N  
2. Enter Plant: PL02  
3. Select Production Supply Area  
4. Enter PSA: PSA-002  
5. Press Enter | Kanban status for the kanban of product KOMP2 has switched from status ‘empty’ to status ‘full’ |
| 21.  | Trigger material staging via stock transfer kanban with consumption to cost center | 1. In SAP ERP start transaction PK13N  
2. Enter Plant: PL02  
3. Select Production Supply Area  
4. Enter PSA: PSA-002  
5. Press Enter  
6. Select one kanban of material KOMP2CC2  
7. Press push button To Empty | Kanban status has changed from ‘wait’ or ‘full’ to ‘empty’. Outbound delivery gets created and saved and replicated to EWM. Note down the outbound delivery number from the kanban information for later use. Note With changing the status from full to empty not only a stock transfer outbound delivery gets created but also an outbound delivery for consumption to cost center |
| 22.  | Display the posting change delivery in EWM | 1. In SAP EWM start transaction /SCWM/IM_PC  
2. Choose ERP document as criteria for the simple search and enter the ERP outbound delivery number in the simple search field  
3. Press Execute | EWM posting change document is displayed. You can check the following data: The destination stock type is P2. The PSA is PSA-002 The destination storage bin is PSA2-001. |
| 23.  | Create warehouse task for posting change | 1. From the menu choose Posting Change → Follow-On Functions → Warehouse Task (or call transaction /SCWM/TODLV_T)  
2. Press push button Create + Save | Warehouse task for movement of the product KOMP2CC2 from storage type T020 to PSA PSA-002 is created. Note down the warehouse order number for later use |
| 24.  | Confirm warehouse task for posting change | 1. From the menu choose Warehouse Task → Confirm (or call transaction /SCWM/TO_CONF) | Warehouse task is confirmed |
## How To Configure Production Integration

### Step Table

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>25.</td>
<td>Display PSA Stock in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/MON &lt;br&gt;2. Choose node Stock and Bin → Available Stock &lt;br&gt;3. Enter product number KOMPCC2 &lt;br&gt;4. Press Execute.</td>
<td>The staged quantity is now available on the storage bin PSA2-001 of the PSA PSA-002. The stock type is P2.</td>
</tr>
<tr>
<td>26.</td>
<td>Display goods movement for outbound delivery for production supply in ERP</td>
<td>1. In SAP ERP start transaction VL03N &lt;br&gt;2. Enter the ERP Document and choose Environment → Document Flow (F7). &lt;br&gt;3. Select goods movement document &lt;br&gt;4. Press push button Display document.</td>
<td>The material document items have movement type 411. The destination storage location is AFS.</td>
</tr>
<tr>
<td>27.</td>
<td>Check the status of the kanban</td>
<td>1. In SAP ERP start transaction PK13N &lt;br&gt;2. Enter Plant: PL02 &lt;br&gt;3. Select Production Supply Area &lt;br&gt;4. Enter PSA: PSA-002 &lt;br&gt;5. Press Enter</td>
<td>Kanban status for the kanban of product KOMKCC2 has switched from status ‘empty’ to status ‘full’</td>
</tr>
<tr>
<td>28.</td>
<td>Trigger the crate part replenishment in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/REPL &lt;br&gt;2. Select Crate Part Replenishment. &lt;br&gt;3. Enter the warehouse number W002 &lt;br&gt;4. Enter the PSA PSA-002 &lt;br&gt;5. Press Execute &lt;br&gt;6. Select the item you want to replenish &lt;br&gt;7. Select WT Immed. &lt;br&gt;8. Press Execute.</td>
<td>Warehouse task for movement of the product KOMPCR2 from storage type T020 to PSA PSA-002 is created. Note down the warehouse task number for later use</td>
</tr>
<tr>
<td>29.</td>
<td>Confirm warehouse task for crate part replenishment</td>
<td>1. In SAP EWM start transaction /SCWM/TO_CONF &lt;br&gt;2. Choose warehouse task as criteria for the simple search and enter the warehouse task number in the simple search field &lt;br&gt;3. Press Execute &lt;br&gt;4. Press push button Confirm + Save</td>
<td>Warehouse task is confirmed</td>
</tr>
<tr>
<td>30.</td>
<td>Display PSA Stock in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/MON &lt;br&gt;2. Choose node Stock and Bin → Available Stock &lt;br&gt;3. Enter product number KOMPCR2 &lt;br&gt;4. Press Execute.</td>
<td>The staged quantity is now available on the storage bin PSA2-001 of the PSA PSA-002. The stock type is P2.</td>
</tr>
<tr>
<td>31.</td>
<td>Confirm and save the production order in ERP.</td>
<td>1. In SAP ERP start transaction CO15 &lt;br&gt;2. Enter the production order &lt;br&gt;3. Press Enter &lt;br&gt;4. Select Final Confirm. &lt;br&gt;5. Enter the following data: &lt;br&gt;   1. Yield to conf.: 10 &lt;br&gt;6. Press Save</td>
<td>Production order is confirmed and saved &lt;br&gt;Consumption delivery is created in ERP and replicated to EWM &lt;br&gt;The stock to be posted GI is determined automatically and posted GI automatically in EWM</td>
</tr>
<tr>
<td>Step</td>
<td>Step description</td>
<td>Input data</td>
<td>Expected results</td>
</tr>
<tr>
<td>------</td>
<td>------------------</td>
<td>------------</td>
<td>------------------</td>
</tr>
<tr>
<td>32.</td>
<td>Display the outbound delivery for the production order</td>
<td>1. In SAP ERP start transaction VL06O 2. Press List Outbound Deliveries 3. Enter the following data: 1. Order: <code>&lt;production order number&gt;</code> 4. Press Execute</td>
<td>The list of related ERP outbound deliveries is displayed. Via double click an outbound delivery can be displayed. Note down the consumption outbound delivery number for later use.</td>
</tr>
<tr>
<td>33.</td>
<td>Display goods movement for outbound delivery for consumption in ERP</td>
<td>1. In SAP ERP start transaction VL03N 2. Enter the ERP delivery number and choose Environment → Document Flow (F7). 3. Display the material document.</td>
<td>The material document items have movement type 261. The storage location is AFS.</td>
</tr>
<tr>
<td>34.</td>
<td>Display PSA Stock in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/MON 2. Choose node Stock and Bin → Available Stock 3. Enter product number KOMP2, KOMPR2, KOMPK2, KOMPCR2 4. Press Execute.</td>
<td>The staged quantity is now reduced on the storage bin of the PSA by the consumption delivery quantity.</td>
</tr>
<tr>
<td>35.</td>
<td>Display ERP stock</td>
<td>1. In SAP ERP start transaction MMBE 2. Enter material KOMP2, KOMPR2, KOMPK2, KOMPCR2 3. Enter plant PL02 4. Press Enter</td>
<td>The quantity is now reduced by the consumption delivery quantity in storage location AFS.</td>
</tr>
<tr>
<td>36.</td>
<td>Display inbound delivery for GR in ERP</td>
<td>1. In SAP ERP start transaction CO14 2. Enter the production order number 3. Press Enter 4. Press push button Goods Movements 5. In the goods movement overview scroll to column Delivery to get the inbound delivery number for the GR in ERP (First row)</td>
<td>Inbound delivery number is displayed Note down the inbound delivery number for later use.</td>
</tr>
<tr>
<td>37.</td>
<td>Display inbound delivery in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/PRDI 2. choose production order as criteria for the simple search and enter the ERP production order number in the simple search field 3. Press Execute</td>
<td>EWM inbound delivery is displayed HU is displayed Note down the HU number for later use.</td>
</tr>
</tbody>
</table>
### Step 4. Choose tabstrip HU

#### Input data

1. From the menu choose Inbound Delivery → Follow-On Functions → Warehouse Task (or call transaction /SCWM/TODLV_I)
2. Press push button Create + Save

#### Expected results

Warehouse task for movement of HU of the finished product FERT2 from storage type T915 to T010 is created. Note down the warehouse order number for later use.

### Step 38. Create warehouse task for Inbound Delivery

#### Input data

1. In SAP EWM start transaction /SCWMRFUI
2. Enter the following data
   1. Whse No.: W002
   2. Resource: FLT1
   3. DefPresDvc.: PD01
3. Press Enter
4. In the RF menu press 01 System Guided → 01 System Guided Selection
5. Verify the SrcBin Stage-I04
6. Press Enter
7. Enter the HU number e.g. 80000048
8. Press Enter
9. Verify the destination bin <T010-01-08-A>
10. Press Enter
11. Press either F7 (Back) and F1 (Logoff) and F1 (Save) or only F1 and F1 in case there are no more open warehouse tasks available in the queue

#### Expected results

Warehouse task is confirmed, GR is posted, inbound delivery is updated accordingly.

### Step 39. Confirm putaway of HU to final bin

#### Input data

1. In SAP ERP start transaction VL33N
2. Enter the inbound delivery number
3. Press Enter.
4. Select tabstrip Goods Movement Data

#### Expected results

The inbound delivery is displayed. The TotalGdsMvtStat is C.

### 5.3 Process Testcase for Production Integration Using one EWM Managed Storage Location for Warehouse and one IM Managed Storage Location for Production

#### Step 1. Create a production order in ERP

1. In SAP ERP, start transaction CO01.
2. Enter the following data:
   1. Material: FERT3
   2. Production Plant: PL02
   3. Order Type: PP01
3. Choose Enter.
4. Enter the following data:
   1. Quantity: 10
   2. UoM: ea

#### Input data

A production order is created and released and an outbound delivery for staging of pick parts is created. The outbound delivery is replicated to EWM. Note down the production order number for later use.
<table>
<thead>
<tr>
<th>Step</th>
<th>Step description</th>
<th>Input data</th>
<th>Expected results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Display the outbound delivery for the production order</td>
<td>1. In SAP ERP start transaction VL06O &lt;br&gt;2. Press List Outbound Deliveries &lt;br&gt;3. Enter the following data: &lt;br&gt;1. Order: <code>&lt;production order number&gt;</code> &lt;br&gt;4. Press Execute</td>
<td>The list of related ERP outbound deliveries is displayed. Via double click an outbound delivery can be displayed.</td>
</tr>
<tr>
<td>3.</td>
<td>Display the outbound delivery in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/PRDO &lt;br&gt;2. Choose production order as criteria for the simple search and enter the ERP production order number in the simple search field &lt;br&gt;3. Press Execute</td>
<td>EWM outbound delivery order is displayed. You can check the following data: &lt;br&gt;The warehouse process type is P201. &lt;br&gt;The PSA is PSA-003 &lt;br&gt;The destination storage type is T105 &lt;br&gt;The destination storage bin is PSA3-001.</td>
</tr>
<tr>
<td>4.</td>
<td>Create warehouse task for outbound delivery order</td>
<td>1. From the menu choose Outbound Delivery Order → Follow-On Functions → Warehouse Task (or call transaction /SCWM/TODLV_O) &lt;br&gt;2. Press push button Create + Save</td>
<td>Warehouse task for movement of the product KOMP3 from storage type T020 to PSA PSA-003 is created. Note down the warehouse order number for later use.</td>
</tr>
<tr>
<td>5.</td>
<td>Confirm warehouse task for outbound delivery order</td>
<td>1. From the menu choose Warehouse task → Confirm (or call transaction /SCWM/TO_CONF) &lt;br&gt;2. Press push button Confirm + Save</td>
<td>Warehouse task is confirmed With the confirmation of the warehouse task and the arrival of the component KOMP3 on the PSA the GI is triggered automatically.</td>
</tr>
<tr>
<td>6.</td>
<td>Display ERP stock</td>
<td>1. In SAP ERP start transaction MMBE &lt;br&gt;2. Enter material KOMP3 &lt;br&gt;3. Enter plant PL02 &lt;br&gt;4. Press Execute</td>
<td>The quantity is now in unrestricted use in storage location PSIM</td>
</tr>
<tr>
<td>7.</td>
<td>Trigger the material staging for release order part</td>
<td>1. In SAP ERP start transaction MF60 &lt;br&gt;2. Select only Staging Type SLoc Level &lt;br&gt;3. Enter the plant PL02 &lt;br&gt;4. Enter Prodn Supply Area: PSA-003 &lt;br&gt;5. Press Execute &lt;br&gt;6. Press push button Replenishment Elements (Shift + F2) &lt;br&gt;7. Press Create Replenishment Proposals &lt;br&gt;8. Press Stage &lt;br&gt;9. Press Save</td>
<td>The outbound delivery for staging of release order parts KOMPR3 is saved and replicated to EWM</td>
</tr>
</tbody>
</table>
8. **Display the outbound delivery order in EWM**
   1. In SAP EWM start transaction /SCWM/PRDO
   2. Press push button Open Advanced Search
   3. Enter the following data:
      1. Document Type: **OPS**
      2. Status (Item): **DGI = 1**
   4. Press **Advanced Search**
   5. Press **Execute**

   EWM outbound delivery order is displayed. You can check the following data:
   - The warehouse process type is **P201**.
   - The PSA is **PSA-003**
   - The destination storage type is **T105**
   - The destination storage bin is **PSA3-001**.
   - Note down the ERP Document for later use

9. **Create warehouse task for outbound delivery order**
   1. From the menu choose **Outbound Delivery Order** → **Follow-On Functions** → **Warehouse Task** (or call transaction /SCWM/TO_DLV_O)
   2. Press push button **Create + Save**

   Warehouse task for movement of the product **KOMPR3** from storage type **T020** to PSA **PSA-003** is created.
   - Note down the warehouse order number for later use

10. **Confirm warehouse task for outbound delivery order**
    1. From the menu choose **Warehouse task** → **Confirm** (or call transaction /SCWM/TO_CONF)
    2. Press push button **Confirm + Save**

   Warehouse task is confirmed
   - With the confirmation of the warehouse task and the arrival of the component **KOMP3** on the PSA the GI is triggered automatically.

11. **Display ERP stock**
    1. In SAP ERP start transaction MMBE
    2. Enter material **KOMP3**
    3. Enter plant **PL02**
    4. Press **Execute**

   The quantity is now in **unrestricted use** in storage location **PSIM**

12. **Trigger material staging via stock transfer kanban**
    1. In SAP ERP start transaction PK13N
    2. Enter Plant: **PL02**
    3. Select Production Supply Area
    4. Enter PSA: **PSA-003**
    5. Press **Enter**
    6. Select one kanban for material **KOMP3**
    7. Press push button **To Empty**
    8. Double click on the kanban to get the kanban information

   Kanban status has changed from ‘wait’ or ‘full’ to ‘empty’.
   - Outbound delivery gets created and saved and replicated to EWM
   - Note down the outbound delivery number from the kanban information for later use

13. **Display the outbound delivery in EWM**
    1. In SAP EWM start transaction /SCWM/PRDO
    2. Choose ERP document as criteria for the simple search and enter the ERP outbound delivery number in the simple search field
    3. Press **Execute**

   EWM outbound delivery order is displayed. You can check the following data:
   - The warehouse process type is **P201**.
   - The PSA is **PSA-003**
   - The destination storage type is **T105**
   - The destination storage bin is **PSA3-001**.
### How To Configure Production Integration

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
</table>
| 14.  | Create warehouse task for outbound delivery order | 1. From the menu choose *Outbound Delivery Order* → *Follow-On Functions* → *Warehouse Task* (or call transaction /SCWM/TODLV_O)  
2. Press push button *Create + Save*  
   Warehouse task for movement of the product KOMPK3 from storage type T020 to PSA PSA-003 is created.  
   Note down the warehouse order number for later use |
| 15.  | Confirm warehouse task for outbound delivery order | 1. From the menu choose *Warehouse task* → *Confirm* (or call transaction /SCWM/TO_CONF)  
2. Press push button *Confirm + Save*  
   Warehouse task is confirmed  
   With the confirmation of the warehouse task and the arrival of the component KOMPK3 on the PSA the GI is triggered automatically |
| 16.  | Display ERP stock | 1. In SAP ERP start transaction MMBE  
2. Enter material KOMPK3  
3. Enter plant PL02  
4. Press *Execute*  
   The quantity is now in *unrestricted use* in storage location PSIM |
| 17.  | Check the status of the kanban | 1. In SAP ERP start transaction PK13N  
2. Enter Plant: PL02  
3. Select Production Supply Area  
4. Enter PSA: PSA-003  
5. Press *Enter*  
   Kanban status for the kanban of product KOMPK3 has switched from status ‘empty’ to status ‘full’ |
| 18.  | Trigger material staging via stock transfer kanban with consumption to cost center | 1. In SAP ERP start transaction PK13N  
2. Enter Plant: PL02  
3. Select Production Supply Area  
4. Enter PSA: PSA-003  
5. Press *Enter*  
6. Select one kanban of material KOMPKCC3  
7. Press push button *To Empty*  
   Kanban status has changed from ‘wait’ or ‘full’ to ‘empty’.  
   Outbound delivery gets created and saved and replicated to EWM  
   Note down the outbound delivery number from the kanban information for later use  
   **Note**  
   With changing the status from full to empty not only a stock transfer outbound delivery gets created but also an outbound delivery for consumption to cost center |
| 19.  | Display the outbound delivery in EWM | 1. In SAP EWM start transaction /SCWM/PRDO  
2. Choose ERP document as criteria for the simple search and enter the ERP outbound delivery number in the simple search field  
3. Press *Execute*  
   EWM outbound delivery order is displayed. You can check the following data:  
   The warehouse process type is P201.  
   The PSA is PSA-003  
   The destination storage type is T105  
   The destination storage bin is PSA3-001. |
<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Instructions</th>
<th>Notes</th>
</tr>
</thead>
</table>
| 20.  | Create warehouse task for outbound delivery order | 1. From the menu choose *Outbound Delivery Order* → *Follow-On Functions* → *Warehouse Task* (or call transaction /SCWM/TODLV_O)  
2. Press push button *Create + Save* | Warehouse task for movement of the product KOMPKCC3 from storage type T020 to PSA PSA-003 is created. Note down the warehouse order number for later use. |
| 21.  | Confirm warehouse task for outbound delivery order | 1. From the menu choose *Warehouse task* → *Confirm* (or call transaction /SCWM/TO_CONF)  
2. Press push button *Confirm + Save* | Warehouse task is confirmed. With the confirmation of the warehouse task and the arrival of the component KOMPKCC3 on the PSA the GI is triggered automatically. |
| 22.  | Display ERP stock | 1. In SAP ERP start transaction MMBE  
2. Enter material KOMPKCC3  
3. Enter plant PL02  
4. Press *Execute* | The quantity is now in unrestricted use in storage location PSIM. |
| 23.  | Check the status of the kanban | 1. In SAP ERP start transaction PK13N  
2. Enter Plant: PL02  
3. Select Production Supply Area  
4. Enter PSA: PSA-003  
5. Press *Enter* | Kanban status for the kanban of product KOMKCC3 has switched from status ‘empty’ to status ‘full’. |
| 24.  | Confirm and save the production order in ERP. | 1. In SAP ERP start transaction CO15  
2. Enter the production order  
3. Press *Enter*  
4. Select *Final Confirm*.  
5. Enter the following data:  
   1. Yield to conf.: 10  
6. Press *Save* | Production order is confirmed and saved. Consumption delivery is created in ERP and replicated to EWM. The stock to be posted GI is determined automatically and posted GI automatically in EWM. The posted goods issue is replicated to ERP. The consumption delivery in ERP is updated with the GI status and with an entry in the document flow about the corresponding material document. The production order and the reservations in ERP are updated about the posted GI. |
| 25.  | Display the outbound delivery for the production order | 1. In SAP ERP start transaction VL06O  
2. Press *List Outbound Deliveries*  
3. Enter the following data:  
   1. Order: <production order number>  
4. Press *Execute* | The list of related ERP outbound deliveries is displayed. Via double click an outbound delivery can be displayed. Note down the consumption outbound delivery number for later use. |
| 26.  | Display goods movement for | 1. In SAP ERP start transaction VL03N  
2. Enter the ERP delivery number and | The material document items have movement type 261. The |
<table>
<thead>
<tr>
<th>Step</th>
<th>Step description</th>
<th>Input data</th>
<th>Expected results</th>
</tr>
</thead>
<tbody>
<tr>
<td>27.</td>
<td>Display PSA Stock in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/MON&lt;br&gt;2. Choose node Stock and Bin → Available Stock&lt;br&gt;3. Enter product number KOMP3, KOMPR3, KOMPK3, 4. Press Execute.</td>
<td>The staged quantity is now reduced on the storage bin of the PSA by the consumption delivery quantity</td>
</tr>
<tr>
<td>28.</td>
<td>Display ERP stock</td>
<td>1. In SAP ERP start transaction MMBE&lt;br&gt;2. Enter material KOMP3, KOMPR3, KOMPK3, 3. Enter plant PL02 4. Press Enter</td>
<td>The quantity is now reduced by the consumption delivery quantity in storage location PSIM</td>
</tr>
<tr>
<td>29.</td>
<td>Display inbound delivery for GR in ERP</td>
<td>1. In SAP ERP start transaction CO14&lt;br&gt;2. Enter the production order number&lt;br&gt;3. Press Enter&lt;br&gt;4. Press push button Goods Movements&lt;br&gt;5. In the goods movement overview scroll to column Delivery to get the inbound delivery number for the GR in ERP (First row)</td>
<td>Inbound delivery number is displayed&lt;br&gt;Note down the inbound delivery number for later use</td>
</tr>
<tr>
<td>30.</td>
<td>Display inbound delivery in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/PRDI&lt;br&gt;2. choose production order as criteria for the simple search and enter the ERP production order number in the simple search field&lt;br&gt;3. Press Execute&lt;br&gt;4. Choose tabstrip HU</td>
<td>EWM inbound delivery is displayed&lt;br&gt;HU is displayed&lt;br&gt;Note down the HU number for later use</td>
</tr>
<tr>
<td>31.</td>
<td>Create warehouse task for Inbound Delivery</td>
<td>1. From the menu choose Inbound Delivery → Follow-On Functions → Warehouse Task (or call transaction /SCWM/TODLV_I) 2. Press push button Create + Save</td>
<td>Warehouse task for movement of HU of the finished product FERT3 from storage type T915 to T010 is created.&lt;br&gt;Note down the warehouse order number for later use</td>
</tr>
<tr>
<td>32.</td>
<td>Confirm putaway of HU to final bin</td>
<td>1. In SAP EWM start transaction /SCWMRFUI&lt;br&gt;2. Enter the following data&lt;br&gt;1. Whse No.: W002&lt;br&gt;2. Resource: FLT1&lt;br&gt;3. DefPresDvc.: PD01 3. Press Enter&lt;br&gt;4. In the RF menu press 01 System Guided→ 01 System Guided Selection&lt;br&gt;5. Verify the SrcBin Stage-I04&lt;br&gt;6. Press Enter&lt;br&gt;7. Enter the HU number e.g. 80000048&lt;br&gt;8. Press Enter&lt;br&gt;9. Verify the destination bin &lt;T010-01-</td>
<td>Warehouse task is confirmed, GR is posted, inbound delivery is updated accordingly</td>
</tr>
</tbody>
</table>
## 5.4 Process Testcase for Repetitive Manufacturing Integration Using one EWM Managed Storage Location for Warehouse and one IM Managed Storage Location for Production

<table>
<thead>
<tr>
<th>Step</th>
<th>Step description</th>
<th>Input data</th>
<th>Expected results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Trigger material staging via stock transfer kanban</td>
<td>1. Enter Plant: <strong>PL02</strong>&lt;br&gt;2. Select Production Supply Area&lt;br&gt;3. Enter PSA: <strong>PSA-003</strong>&lt;br&gt;4. Press <strong>Enter</strong>&lt;br&gt;5. Select one kanban for material KOMPK3&lt;br&gt;6. Press push button <strong>To Empty</strong>&lt;br&gt;7. Double click on the kanban to get the kanban information</td>
<td>Kanban status has changed from 'wait' or 'full' to 'empty'.&lt;br&gt;Outbound delivery gets created and saved and replicated to EWM Note down the outbound delivery number from the kanban information for later use</td>
</tr>
<tr>
<td>2.</td>
<td>Display the outbound delivery in EWM</td>
<td>1. In SAP EWM start transaction /SCWM/PRDO&lt;br&gt;2. Choose ERP document as criteria for the simple search and enter the ERP outbound delivery number in the simple search field&lt;br&gt;3. Press <strong>Execute</strong></td>
<td>EWM outbound delivery order is displayed. You can check the following data:&lt;br&gt;The warehouse process type is P201.&lt;br&gt;The PSA is PSA-003&lt;br&gt;The destination storage type is T105&lt;br&gt;The destination storage bin is PSA-001.</td>
</tr>
<tr>
<td>3.</td>
<td>Create warehouse task for outbound delivery order</td>
<td>1. From the menu choose <strong>Outbound Delivery Order → Follow-On Functions → Warehouse Task</strong> (or call transaction /SCWM/TODLV_O)&lt;br&gt;2. Press push button <strong>Create + Save</strong></td>
<td>Warehouse task for movement of the product KOMPK3 from storage type T020 to PSA PSA-003 is created.&lt;br&gt;Note down the warehouse order number for later use</td>
</tr>
<tr>
<td>4.</td>
<td>Confirm warehouse task for outbound delivery order</td>
<td>1. From the menu choose <strong>Warehouse task → Confirm</strong> (or call transaction /SCWM/TO_CONF)</td>
<td>Warehouse task is confirmed With the confirmation of the warehouse task and the</td>
</tr>
</tbody>
</table>
### How To Configure Production Integration

#### Step 2
1. In SAP ERP start transaction MMBE
2. Enter material **KOMPK3**
3. Enter plant **PL02**
4. Press **Execute**

**Expected results:** Arrival of the component KOMPK3 on the PSA the GI is triggered automatically.

#### Step 5
1. Display ERP stock
2. In SAP ERP start transaction PK13N
3. Enter Plant: **PL02**
4. Select Production Supply Area
5. Enter PSA: **PSA-003**
6. Press **Enter**

**Expected results:** Kanban status for the kanban of product KOMPK3 has switched from status ‘empty’ to status ‘full’.

#### Step 7
1. Create a HU to be posted Goods Receipt (GR) in ERP
2. In SAP ERP, start transaction HUP1.
3. Enter the following data:
   1. Material: **SERIFERT3**
   2. Production Plant: **PL02**
   3. Storage Location: **AFS**
   4. Qty to Be Packed: **10**
   5. Un.of meas: **EA**
4. Choose Enter.
5. Press **Save HUs**
6. Press push button Display Saved HUs

**Expected results:** A HU is created for posting GR.

#### Step 8
1. Post GR for Handling Units in ERP
2. In SAP ERP start transaction MFHU
3. Enter the HU number
4. Press **Enter**
5. Press **Save**
6. Check the log to get the inbound delivery number

**Expected results:** An inbound delivery for the HU for posting GR is created in ERP.

#### Step 9
1. Display ERP stock
2. In SAP ERP start transaction MMBE
3. Enter material **SERIFERT3, KOMPK3**
4. Enter plant **PL02**
5. Press **Enter**

**Expected results:** The quantity of the finished good SERIFERT3 is now increased in storage location AFS.

#### Step 10
1. Display inbound delivery in EWM
2. In SAP EWM start transaction /SCWM/PRDI
3. Choose ERP document as criteria for the simple search and enter the ERP inbound delivery number in the simple

**Expected results:** EWM inbound delivery is displayed

**Note:**
- Display ERP stock
- Display inbound delivery in EWM

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**December 2013**
### Create warehouse task for inbound delivery

<table>
<thead>
<tr>
<th>Step</th>
<th>Step description</th>
<th>Input data</th>
<th>Expected results</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.</td>
<td>Create warehouse task for inbound delivery</td>
<td>3. Press <em>Execute</em>&lt;br&gt;4. Choose tabstrip <em>HU</em></td>
<td>Warehouse task for movement of the HU for product SERIFERT3 from storage type T91 to T010 is created. Note down the warehouse order number for later use.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. From the menu choose <em>Inbound Delivery</em> → <em>Follow-On Functions</em> → <em>Warehouse Task</em> (or call transaction /SCWM/TODLV_I)&lt;br&gt;2. Press push button <em>Create + Save</em></td>
<td></td>
</tr>
</tbody>
</table>

### Confirm warehouse task for inbound delivery

<table>
<thead>
<tr>
<th>Step</th>
<th>Step description</th>
<th>Input data</th>
<th>Expected results</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.</td>
<td>Confirm warehouse task for inbound delivery</td>
<td>1. From the menu choose <em>Warehouse task</em> → <em>Confirm</em> (or call transaction /SCWM/TO_CONF)&lt;br&gt;2. Press push button <em>Confirm + Save</em></td>
<td>Warehouse task is confirmed</td>
</tr>
</tbody>
</table>

[...]

### Search field

3. Press *Execute*<br>4. Choose tabstrip *HU* later use
www.sdn.sap.com/irj/SDN/howtoguides